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THE
ANIMAL KINGDOM,
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Serving as a
Foundation for the
NATURAL HISTORY OF ANIMALS,
and an
Introduction to comparative Anatomy.

—B—
(BARON CUVIER,

Great Officer of the Legion of Honour, Counsellor of State, & Member of the Royal Council of Public Instruction. One of the Forty of the French Academy, Perpetual Secretary to the Academy of Sciences. Member of the Academies & Royal Societies of London, Berlin, Petersburg, Stockholm, Turin, Edinburgh, Copenhagen, Göttingen, Bavaria, Modena, the Netherlands, & Genoa & of the Asiatic Society of London, &c. &c.

WITH FIGURES DESIGNED AFTER NATURE:

the
Crustacea, Arachnides & Insecta,

by
M. Latreille,

Chevalier of the Legion of Honour, Member of the Institute, Royal Academy of Sciences, & of the greater portion of other learned Societies in Europe, America, &c.

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(with)
ADDITIONAL NOTES.

and
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VOL. II.

REPTILES - FISHES.

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TABLE OF CONTENTS TO PLATES.

VOLUME II.

REPTILIA—PISCES.

REPTILIA.		Vol. II.	Page
Plate 1.	Fig. 1.—HEMIDACTYLUS MARGINATUS, Cuv. . . . .	.	36
	Fig. 2.—UROPELTIS CEYLANICUS, Nob. . . . .	.	50
	Fig. 3.—DACTYLETHRA CAPENSIS (<i>The Thimble or Cape Frog</i>) . . . . .	.	69
Plate 2.	Fig. 1.—TESTUDO DEPRESSA, Cuv. . . . .	.	6
	Fig. 2.—Head of the TESTUDO CLAUSA . . . . .	.	6
	Fig. 3.—EMYS CONCINNA, Le Conte. Taken from a Young Specimen . . . . .	.	6
	Fig. 4.—CHELONIA VIRGATA, Nob. . . . .	.	8
	Fig. 5.—CHELYS FIMBRIA, Gm. (<i>The Fringed Tortoise</i>) . . . . .	.	9
	Fig. 6.—TRYONIX GANGETICUS, Duv. (<i>The Tyrse of the Ganges</i>) . . . . .	.	10
	Fig. 7.—TRYONIX ÆGYPTIACUS, Geoff. (<i>The Soft-shelled Tortoise of the Nile</i>) . . . . .	.	9
Plate 3.	Fig. 1.—CROCODILUS BIPORCATUS, Cuv. (<i>The Double-crested Crocodile</i>) . . . . .	.	14
	Fig. 2.—Head of ALLIGATOR SCLEROPS, Cuv. (<i>The Spectacle Alligator</i>) . . . . .	.	15
	Fig. 3.—Head of GAVIALIS TENUIROSTRIS, Cuv. . . . .	.	13
Plate 4.	Fig. 1.—TESTUDO SERRATA, Daud. . . . .	.	6
	Fig. 2.—TESTUDO MYDAS, Lin. (<i>The Common Turtle</i>) . . . . .	.	8
	Fig. 3.—TESTUDO CEPEDIANA, Daud.* . . . .	.	8
	Fig. 4.—TESTUDO CARETTA, Gm. . . . .	.	8
	Fig. 5.—TESTUDO CORIACEA, Lin. (<i>The Coriaceous Turtle</i>) . . . . .	.	9
	Fig. 6.—TESTUDO FEROX, Penn. (<i>The Soft-shelled Tortoise of America</i>) . . . . .	.	9
Plate 5.	Fig. 1.—TESTUDO FIMBRIA, Gm. . . . .	.	9
	Fig. 2.—TESTUDO SERPENTINA, Lin. (<i>The Snapper</i>) . . . . .	.	7
	Fig. 3.—TESTUDO LUTEOLA, Daud.† . . . .	.	.
	Fig. 4.—TESTUDO STELLATA, Schœpf. . . . .	.	6
	Fig. 5.—TESTUDO GEOMETRICA, Lin. (<i>The Geometrica</i>) . . . . .	.	5
	Fig. 6.—TESTUDO IMBRICATA, Lin. (<i>The Hawk-billed Tortoise</i>) . . . . .	.	8
	Fig. 7.—TESTUDO RADIATA, Shaw. (<i>The Coui</i>) . . . . .	.	6
Plate 6.	Fig. 1.—AMEIVA (<i>The American Lizard</i>) . . . . .	.	19
	Fig. 2.—The Scales of the Belly of a <i>Sauvegarde</i> . . . . .	.	13
	Fig. 3.—CENTROPYX CALCARATUS (<i>The Spurred Centropyx</i>) . . . . .	.	19
2nd. Plate 6.	Figs. 1, 2, 3.—Head of the <i>Great Python of Java</i> . . . . .	.	53
	Figs. 4, 5, 6.—Head of a <i>Rattle-snake</i> . . . . .	.	57
Plate 7.	Fig. 1.—MONITA CROCODILINUS, Merr. (<i>The Great Dragon of Lacep.</i>) . . . . .	.	18
	Fig. 2.—TUPINAMBIS ALBIGULARIS, Daud. (<i>The White-throated Monitor</i>) . . . . .	.	17
	Fig. 3.—LACERTA MAGNIFICUS, Seba, (<i>The Beautiful Monitor</i>) . . . . .	.	17
Plate 8.	Fig. 1.—LACERTA OCELLATA, Daud. (<i>The Ocellated Lizard</i>) . . . . .	.	20
	Fig. 2.—LACERTA VIRIDIS, Daud. (<i>The Green Lizard</i>) . . . . .	.	20
	Fig. 3.—LACERTA STIRPIUM, Daud. . . . .	.	20

* This species figured by Daudin, closely approximates to the young of the *Testudo Imbricata*.

† See Daudin Hist. Nat. des Rep., Tom. 2, p. 277.

REPTILIA.		Vol. II. Page
Plate 9. Fig. 1.—	TRAPELUS ÆGYPTIUS (<i>The Mutable Agama</i>)	Young specimen 24
Fig. 2.—	TRAPELUS ÆGYPTIUS, Geoff. N. S.	24
Fig. 3.—	LACERTA CALOTES, Lin	25
Plate 10. Fig. 1.—	MONITOR GEMMATUS,* In the collection of the French Museum	17
Fig. 2.—	DRACÆNA BICARINATA; Lacerta Bicarinata	15
Plate 11. Fig. 1.—	LACERTA AGILIS, Lin. (<i>The Common European Lizard</i>)	20
Fig. 2.—	ALGYRA BARBARICA, Cuv.; Lacerta algyra, Lin.	20
Fig. 3.—	TACHYDROMUS OCELLATUS, Daud. (<i>The Ocellated Swift Lizard</i>)	20
Plate 12. Fig. 1.—	CORDYLUS MICROLEPIDOPUS	21
Fig. 2.—	Head of the STELLIO VULGARIS, (<i>The Common Stellio</i>)	22
Fig. 3.—	DORYPHORUS BREVICAUDATUS, (<i>The Short-tailed Doryphorus of Daud</i>)	22
Fig. 4.—	UROMASTIX RETICULATUS, (<i>The Reticulated Stellio of Bengal</i>)	22
Plate 13. Fig. 1.—	LACERTA VITTATA, Gm. (<i>The White-banded Gecko</i>)	35
Fig. 2.—	STELLIO FIMBRIATUS, Sch. (<i>The Fringed Gecko</i>)	37
Fig. 3.—	STELLIO GECKO, Sch. (<i>The White-spotted Gecko</i>)	35
Fig. 4.—	GECKO LÆVIS, D. (<i>The Smooth Gecko</i>)	36
Plate 14. Fig. 1.—	ANOLIUS VELIFER, Cuv. (<i>The Great-crested Anolius</i>)	31
Fig. 2.—	ECPHIMOTUS TUBERCULATA, (<i>The Tuberculated Ecphimotes</i>)	30
Fig. 3.—	OPHIRUS TORQUATUS, Cuv. (<i>The Black-collared Grey Quetzpaleo</i>)	30
Plate 15. Fig. 1.—	ANOLIUS VELIFER, (<i>The Great-crested Anolius</i>) Another view see Pl. 14.	31
Fig. 2.—	ANOLIUS EQUESTRIS, (<i>The Equestrian Anolius</i>)	31
Fig. 3.—	GECKO INUNGUIS, (<i>The Nailless Gecko</i>)	34
Fig. 4.—	GECKO OCELLATUS, (<i>The Ocellated Gecko</i>)	34
Fig. 5.—	GECKO CEPEDIANUS, (<i>The Cepedian Gecko</i>)	34
Plate 16. Fig. 1.—	PHYSIGNATHUS COCINCINUS, Nob. (<i>The Physignath</i>)	26
Fig. 2.—	SITANA PONTICERIANA, Cuv. (<i>The Sitan</i>)	28
Fig. 3.—	IGUANA CYCHLURA, Cuv. (<i>The Carolina or Arm-tailed Iguana</i>)	29
Plate 16. Fig. 1.—	AGAMA JACKSONIENSIS, (<i>The Bachelor</i>) In the collection of the French Museum	23
Fig. 2.—	LEIOPELIS GUTTATUS, Cuv. (<i>The Striped Leiolepis</i>)	24
Fig. 3.—	CALOTES GUTTUROSA (<i>The Crested Agama</i>)	25
Plate 18. Fig. 1.—	BRACHYLOPHUS FASCIATUS (<i>The Banded Aguana</i>)	26
Fig. 2.—	ISTIURUS COCHINSINENSIS, Vale. (<i>The Istiurus or Lophura of Cochín China</i>) In the collection of the French Museum	27
Plate 19. Fig. 1.—	OPHRYESSA SUPERCILIOSA	29
Fig. 2.—	LYRIOCEPHALUS MARGARITACEUS, Mer.	26

* This is a species which approaches in its peculiarities of conformation the Lacerta Bivittata of Kuhl.

REPTILIA.		Vol. II. Page
Plate 20.	Figs. 1, 2, 3.—Head of a <i>CÆCILIA</i>	65
	Figs. 4, 5, 6.—Head of an <i>AMPHISBÆNA</i> (<i>The Double-walker</i>)	48
	Figs. 7, 8, 9.—Head of an <i>OPHISAURUS</i>	46
Plate 21.	Fig. 1.— <i>DRACO FIMBRIATUS</i> (<i>The Dragon</i>)	27
	Fig. 2.— <i>SITANA PONTICERIANA</i> (<i>The Sitan</i>)	27
Plate 22.	Fig. 1.— <i>IGUANA NUDICOLLIS</i> , Cuv. (<i>The Naked Aguana</i>)	29
	Fig. 2.— <i>BASILISCUS</i> ; <i>Lacerta basiliscus</i> , Lin. (<i>The Basilisk</i>)	30
	Fig. 3.— <i>POLYCHRUS MARMORATUS</i> , Lin. (<i>The Marbled Lizard</i>)	30
Plate 23.	Fig. 1.— <i>HEMIDACTYLUS TUBERCULOSUS</i> , Daud. (<i>The Spotted Hemidactylus</i>)	36
Plate 24.	Fig. 1.— <i>PHYLLURUS PLATURUS</i> , White.	38
	Fig. 2.—Foot of the <i>PLATYDACTYLUS INUNGUIS</i>	34
	Fig. 3.—Foot of the <i>HEMIDACTYLUS TRIHEDRUS</i>	36
	Fig. 4.—Foot of the <i>THECADACTYLUS</i>	36
	Fig. 5.—Foot of the <i>PTYODACTYLUS LOBATUS</i>	37
	Fig. 6.—Foot of the <i>SPHEROIDACTYLUS</i>	38
	Fig. 7.—Foot of the <i>STENODACTYLUS GUTTATUS</i>	38
Plate 25.	Fig. 1.— <i>TORTRIX MACULATA</i> , Lin. (<i>The Variegated Tortrix of America</i>)	50
	Fig. 2.— <i>BOA CANINA</i> , Lin. (<i>The Canine Boa</i>)	52
	Fig. 3.—Tail of the <i>UROPELTIS CEYLANICUS</i> , Cuv. (<i>The Uropeletis of Ceylon</i>)	50
Plate 25. bis.	Fig. 1.— <i>CHAMÆLEO AFRICANUS</i> (<i>The Common Chameleon</i>)	39
	Fig. 2.— <i>SCINCUS CÆLESTINUS</i> , Valenc. (<i>The Blue Scinc</i>) In the collection of the French Museum	41
	Fig. 3.— <i>SEPS STRIATA</i> (<i>The Striped Seps</i>)	42
Plate 26.	Fig. 1.— <i>ERIX BENGALENSIS</i> , Merr. (<i>The Hairy Serpent of Bengal</i>)	52
	Fig. 2.—Head of the <i>SCYTALE CORONATA</i> , Merr. (<i>The Crowned Syc-tale or False Boa</i>)	52
	Fig. 3.— <i>ERPETON TENTACULATUS</i> , Lacep. (<i>The Tentaculated Serpent</i>)	53
Plate 26. bis.	Fig. 1.— <i>BIPES LEPIDOPODUS</i> , Lacep. (<i>The Two-footed Lepidopodus</i>)	43
	Fig. 2.— <i>CHALCIS TETRADACTYLA</i> , Lacep.	44
	Fig. 3.— <i>CHIROTES CANALICULATUS</i> , Lacep.	44
Plate 27.	Fig. 1.— <i>PSEUDOPUS DURVILLII</i> (<i>The False-foot of Durville</i>)	46
	Fig. 2.—Head of the <i>ANGUIS FRAGILIS</i> , Lin. (<i>The Common Blind worm of Europe</i>)	47
	Fig. 3.— <i>ACONTIAS MELEAGRIS</i> , Lin. (<i>The Darting Serpent of the Cape of Good Hope</i>)	47
Plate 28.	Fig. 1.— <i>AMPHISBÆNA FULIGINOSA</i> , Lin. (<i>The Double-walker</i>)	48
	Fig. 2.— <i>TYPHLOPS CINEREUS</i> , Schn. (<i>The Blind Serpent of Schneider</i>)	49
Plate 29.	Fig. 1.— <i>VIPERA BERUS</i> , Lin. (<i>The common Viper</i>)	59
	Fig. 2.— <i>CROTALUS HORRIDUS</i> , Lin. (<i>The Diamond Rattle-snake</i>)	59
Plate 30.	Fig. 1.— <i>TRIMERESURUS TORTOR</i> , Less. (<i>The Winding Trimeresurus</i>).	62
	Fig. 2.— <i>ACANTHOPHIS CERASTINUS</i> , Daud. (<i>The Venomous Acanthophis</i>)	62
Plate 31.	Fig. 1.— <i>PYTHON SCHNEIDERII</i> , Merr. (<i>The Great Python of Schneider</i>)	53
	Fig. 2.— <i>DIPSAS CYANODON</i> , Cuv. (<i>The Fatal Thirst-causing Serpent of India</i>)	54

	REPTILIA.	Vol. II. Page
Plate 31. Fig. 3.—	XENOPELTIS CONCOLOR, Reinwardt. (<i>The Many-coloured Xenopeltis</i>)	53
Plate 32. Fig. 1.—	DENDROPHIS AHÆTIILLA (<i>The Serpent of the Woods</i>)	54
Fig. 2.—	DRYINUS NASUTUS, Russel (<i>The Hog-nosed Dryinus or Coluber</i>)	54
Plate 33. Fig. 1.—	BUNGARUS ANNULARIS, Daud.	63
Fig. 2.—	ANGUIS PLATURUS, Lin.	63
Plate 34. Fig. 1.—	HYDROPHIS CLORIS, Russel	63
Fig. 2.—	CÆCILIA LOMBRICOIDÆA, Daud.	65
Fig. 3.—	CÆCILIA ALBIVENTRIS, Daud.	65
Plate 35. Fig. 1.—	HYDROPHIS FASCIATUS, Russel (<i>The Bengal Water Serpent</i>)	63
Fig. 2.—	CÆCILIA BIVITTATA, Cuv. (<i>The Blind Serpent or The Cæcilia of America</i>)	68 65
Plate 36. Fig. 1.—	RANA PALUSTRIS, Le Conte.	68
Fig. 2.—	CERATOPHRIS GRANOSA (<i>The American Horned Frog</i>)	69
Fig. 3.—	HYLA BICOLOR, Daud. (<i>The South American Two-coloured Tree Frog</i>)	69
Plate 37. Fig. 1.—	BUFO VULGARIS (<i>The Common Toad</i>)	70
Fig. 2.—	OXYRHNCUS BICOLOR, Val. (<i>The Angular-muzzle Toad</i>) In the collection of the French Museum	72
Fig. 3.—	ENGYSTOMA MARMORATUM (<i>The Marbled Toad</i>)	72
Plate 38. Fig. 1.—	SALAMANDRA ATRA, Laurenti (<i>The Black Salamander</i>).	74
Fig. 2.—	TRITON VITTATUS, Valenc. (<i>The Triton</i>) In the collection of French Museum.	75
Fig. 3.—	MONOPOMA GIGANTEA, Barton (<i>The Great Salamander of North America</i>)	76
Plate 39. Fig. 1.—	AMPHIUMA MEANS, Gard. and Harl. of the French Museum (<i>The Two-toed Amphiuma</i>)	76
Fig. 2.—	AMPHIUMA TRYDACTYLUM (<i>The Three-toed Amphiuma</i>)	76
Fig. 3.—	AXOLOTL PISCIFORMIS, Shaw (<i>The Fish Serpent of Mexico</i>)	76
Fig. 4.—	MENOBRANCHUS LATERALIS, Harl.	77
Plate 40. Fig. 1.—	PROTEUS ANGUINUS, Laur. (<i>The Blind Proteus</i>)	77
Fig. 2.—	SIREN STRIATA, Le Conte (<i>The Streaked Siren</i>)	78
Fig. 3.—	SIREN INTERMEDIA, Le Conte (<i>The Intermediate Siren of Le Conte</i>)	77



PISCES.

Plate 1. Fig. 1.—	ETELIS CARBUNCULUS (<i>The Etelis</i>)	87
Fig. 2.—	DIPLOPRION BIFASCIATUM (<i>The Bifasciate Diploprion</i>)	87
Fig. 3.—	Head of the HURO NIGRICANS (<i>The Black Basse</i>)	87
Fig. 4.—	Head of the NIPHON SPINOSUS (<i>The Spiny Niphon</i>)	87
Fig. 5.—	Head of the ENOPIOSUS ARMATUS (<i>The Enoplosus or Armed Perch of Japan</i>)	87
Plate 2. Fig. 1.—	PERCA ACUTA, Cuv. and Val.	85
Fig. 2.—	LATES NOBILIS, Cuv. and Val.	86
Fig. 3.—	CENTROPOMUS UNDECIMALIS, Cuv. (<i>The Eleven-spined Centropomus</i>)	86

PISCES.

Vol. II. Page

Plate 3. Fig. 1.—	Apogon trimaculatus (The Mediterranean Apogon)	. 87
Fig. 2.—	Cheilodipterus arabicus (The Arabian Cheilodipterus)	. 88
Fig. 3.—	Ambassis Commersonii (Commerson's Ambassis; or, The Dugol)	. 88
Plate 4. Fig. 1.—	Lucio-perca sandra, Cuv. (The Common Pike Perch)	. 89
Fig. 2.—	Lucio-perca americana (The American Perch)	. 89
Fig. 3.—	Huro nigricans, Cuv. (The Black Bass of the Huron)	. 87
Plate 5. Fig. 1.—	Lucio-perca volgensis, Pallas (The Russian Perch)	. 89
Fig. 2.—	Nippon spinosus, Cuv. (The Spined Nippon)	. 87
Fig. 3.—	Enoplosus armatus, Lacep. (The Armed Enoplosus)	. 87
Plate 6. Fig. 1.—	Serranus anthias (The Spined Serranus)	. 89
Fig. 2.—	Serranus cabrilla, Nob. (The Common Serranus)	. 89
Fig. 3.—	Serranus gigas, Nob. (The Merra of the Mediterranean)	. 90
Plate 7. Fig. 1.—	Serranus phæton, Nob. (The Long-tailed Serranus)	. 91
Fig. 2.—	Serranus fascicularis, Nob. (The Banded Serranus)	. 89
Fig. 3.—	Serranus ocellatus, Nob. (The Large-eyed Serranus)	. 90
Plate 8. Fig. 1.—	Mesoprion uninotatus, Cuv. (The One-spotted Mesoprion)	. 91
Fig. 2.—	Mesoprion chrysurus, Nob. (The Golden-tailed Mesoprion)	. 91
Fig. 3.—	DiaCOPE rivulata, Nob. (The Banded DiaCOPE)	. 91
Plate 8. bis. Fig. 1.—	Labrax mugronatus, Cuv. and Val.	. 86
Fig. 2.—	Labrax lupus, Cuv. (The Basse Perch)	. 85
Fig. 3.—	Serranus scriba, Cuv. (The Mediterranean Sea Perch)	. 89
Plate 9. Fig. 1.—	Sternoptyx diaphana, Herm.	. 199
Fig. 2.—	Sternoptyx olfersii, Cuv.	. 199
Fig. 3.—	Gymnarchus senegalensis; or Niloticus, Cuv.	. 226
Plate 10. bis. Fig. 1.—	Plectropoma leopardinus, Cuv. (The Leopard-spotted Plectropoma)	. 91
Fig. 2.—	Plectropoma puella, Cuv. (The Beautiful Plectropoma)	. 91
Fig. 3.—	Serranus altivelis, Cuv. (The Large-finned Serranus)	. 91
Plate 11. Fig. 1.—	Pentaceros capensis, Nob.	. 93
Fig. 2.—	Grystes salmoides, Nob. (The Salmon-formed Growler)	. 93
Fig. 3.—	Centropistes nigricans, Nob. (The American Black Bate, or Perch)	. 93
Plate 12. Fig. 1.—	Perca serrato-granulata, Cuv. (The Granulated Perch)	. 85
Fig. 2.—	Grammites orientalis, Cuv. (The Oriental Grammist)	. 86
Fig. 3.—	Aspro vulgaris, Cuv. (The Common Aspro)	. 87
Fig. 4.—	Head of the Labrax vulgaris; Labrax lupus, Cuv. (The Basse Perch)	. 85
Fig. 5.—	Head of the Lates nobilis, Cuv. (The American Pike)	. 86
Plate 12. bis. Fig. 1.—	Heliases insolatus, Cuv.	. 114
Fig. 2.—	Pomacentrus fasciatus	. 113
Fig. 3.—	Glyphisodon celestinus	. 114
Plate 13. Fig. 1.—	Centropistes aurorubens, Nob. (The Golden Red Perch)	. 93
Fig. 2.—	Grystes macquariensis (The Growler of New South Wales)	. 93
Fig. 3.—	Head of the Acerina vulgaris (The Common Gremlille)	. 92
Fig. 4.—	Head of the Polyprion cernium (The Mediterranean Cernier)	. 92

	PISCES.	Vol. II. Page
Plate 13. Fig. 5.—	Head of the RYPTICUS ARENATUS, Cuv. (<i>The Soap-wort</i>)	92
Fig. 6.—	Fin of the CIRRHITES FASCIATUS	93
Plate 13. bis. Fig. 1.—	DULE# MARGINATUS, Nob. (<i>The Bordered Doule</i>)	94
Fig. 2.—	DATNIA ARGENTEA	94
Fig. 3.—	THERAPON THERAPS, Cuv.	94
Plate 14. Fig. 1.—	APOGON REX MULLORUM, Cuv. (<i>The Red Surmullet</i>)	88
Fig. 2.—	POMATOMUS TELESCOPIUM, Risso (<i>The Telescope Pomatomus</i>)	88
Fig. 3.—	LUCIO-PERCA SANDRA, Cuv. (<i>The Common Sandre</i>). For another view, see plate 4. fig. 1.	89
Fig. 4.—	Head of the CHEILODIPTERUS ARABICUS, Cuv. and Val. (<i>The Tabah of the Arabs</i>)	88
Fig. 5.—	Head of the AMBASSIS COMMERSIONII, (<i>The Dugol</i>)	88
Plate 14. bis. Fig. 1.—	DULES AURIGA, Nob.	94
Fig. 2.—	POMOTIS VULGARIS, Nob. (<i>The Common Pomatis or American Pond Perch</i>)	93
Fig. 3.—	PRIACANTHUS JAPONICUS, Nob. (<i>The Priacanth of Japan</i>)	94
Plate 15. Fig. 1.—	SERRANUS HEXAGONATUS, Cuv. (<i>The Hexagon Sea Perch</i>)	90
Fig. 2.—	MESOPRION AYA, Cuv. (<i>The Garanha or Red Mesoprion</i>)	91
Fig. 3.—	Head of the PLECTROPOMUS PUELLA, Cuv.	91
Fig. 4.—	Head of the SERRANUS ANTHIUS, Cuv. (<i>The Mediterranean Barber</i>)	90
Fig. 5.—	Head of the DIACOPE RIVULATA, Cuv. (<i>The Coromandal Orati</i>)	91
Plate 16. Fig. 1.—	CENTRARCHUS SPAROIDES, Lacep.	94
Fig. 2.—	DULES RUPESTRIS, Cuv. (<i>The Doule</i>)	94
Fig. 3.—	Head of the POMOTIS VULGARIS (<i>The American Pond Perch</i>)	93
Fig. 4.—	Head of the PRIACANTHUS JAPONICUS, Nob. (<i>The Priacanthus of Japan</i>)	94
Plate 16. bis. Fig. 1.—	PELOR FILAMENTOSUM, Cuv.	107
Fig. 2.—	PLATYCEPHALUS ASPER, Cuv. and Val.	105
Fig. 3.—	DACTYLOPTERUS ORIENTALIS, Cuv. (<i>The Flying Gurnard</i>)	103
Plate 17. Fig. 1.—	THERAPON PUTA, Cuv. (<i>The Therapon</i>)	94
Fig. 2.—	PELATES QUADRI-LINEATUS (<i>The Four-lined Pelates</i>)	94
Fig. 3.—	TRICHODON STELLERI, Cuv. (<i>The Trichodon</i>)	95
Fig. 4.—	Head of the HELOTES SEX-LINEATUS, Cuv. (<i>The Six-lined Helotes</i>)	95
Plate 17. ter. Fig. 1.—	HELOTES SEX-LINEATUS, Cuv.	95
Fig. 2.—	MYRIPRISTIS JAPONICUS, Cuv. and Val.	96
Fig. 3.—	Holocentrum hastatum.	96
Plate 18. Fig. 1.—	TRACHINUS ARANEUS Riss. (<i>The Weever</i>)	97
Fig. 2.—	PERCIS CANCELLATA, Cuv.	98
Fig. 3.—	URANOSCOPIUS GUTTATUS, Cuv. (<i>The Star-gazer</i>)	97
Fig. 4.—	Head of the PINGUIPES BRASILIANUS, Cuv.	97
Fig. 5.—	Head of the PERCOPHIS BRASILIANUS, Cuv.	97
Plate 18. bis. Fig. 1.—	SILLAGO ERYTHREA,	95
Fig. 2.—	MYRIPRISTES SEYCHELLENSIS,	96
Fig. 3.—	BERYX DECADACTYLUS,	96

PISCES.

Vol. II. Pag^e

2nd. Plate 18. bis. Fig. 1.—	PERCIS SEMI-FASCIATA, Cuv. and Val. (<i>The Half-banded Percis</i>).	97
Fig. 2.—	PERCOPHIS BRASILIANUS, (<i>The Brazilian Percophis</i>)	97
Fig. 3.—	URANOSCOPUS INERMIS, Cuv. and Val. (<i>The Unarmed Star-gazer</i>)	98
Plate 18. ter. Fig. 1.—	BERYX LINEATUS, Cuv. and Val.	96
Fig. 2.—	TRACHINUS RADIATUS, Cuv.	97
Fig. 3.—	PINGUIPES BRASILIANUS, Cuv.	97
Plate 19. Fig. 1.—	POLYNEMUS ENNEADACTYLUS, Vahl.	99
Fig. 2.—	SPYHRÆNA VULGARIS, Lin.	99
Fig. 3.—	PARALEPIS COREGONOIDES, Risso.	99
Fig. 4.—	UPENEUS LATEUS Cuv. and Val.	100
Fig. 5.—	Head of the MULLUS BARBATUS, Lin. (<i>The Red Surmullet</i>)	100
Plate 19. bis. Fig. 1.—	POLYNEMUS QUADRI-FILIS (<i>The Four-filimented Paradise Fish</i>)	99
Fig. 2.—	PARALEPIS SPHYRÆNOIDES, Risso	99
Fig. 3.—	SPHYRÆNA BARRACUDA, Cuv. and Val.	99
Plate 20. Fig. 1.—	Head of GADUS MORRHUA, Lin. (<i>The Cod</i>)	209
Plate 20. bis. Fig. 1.—	SILLAGO DOMINA, Cuv.	95
Fig. 2.—	MULLUS BARBATUS, Lin. (<i>The Red Surmullet</i>)	100
Fig. 3.—	UPENEUS VLAMINGII, Cuv. and Val.	100
Plate 21. bis. Fig. 1.—	AGRIOPUS VERRUCOSUS	107
Fig. 2.—	PELOR JAPONICUM	107
Fig. 3.—	SYNANCEIA EROSA, Cuv.	107
Plate 22. bis. Fig. 1.—	SCORPÆNA GRANDICORNIS	105
Fig. 2.—	BEMBRAS JAPONICUS	105
Fig. 3.—	HEMILEPIDOTUS TILESII	104
Plate 23. Fig. 1.—	TRIGLA PÆCILOPTERA, Cuv. and Val.	101
Fig. 2.—	CEPHALACANTHUS SPINARELLA, Cuv.	103
Fig. 3.—	COTTUS POROSUS, Cuv.	103
Fig. 4.—	COTTUS OCTODECIM SPINOSUS, Cuv.	103
Plate 23. bis. Fig. 1.—	PRIONOTUS TRIBULUS, Cuv.	102
Fig. 2.—	TRIGLA LICERNA, Brönn.	102
Fig. 3.—	PERISTEDION CATAPHRACTA, Lacep.	102
Plate 24. Fig. 1.—	ASPIDIPHORUS SEGALIENSIS, Cuv.; Agonus lævigatus, Tiles	104
Fig. 2.—	Head of the ASPIDIPHORUS QUADRICORNIS, Cuv.	104
Fig. 3.—	HEMITRIPTERUS AMERICANUS, Cuv.	104
Fig. 4.—	HEMILEPIDOTUS TILESII, Cuv.	104
Fig. 5.—	Head of the PLATYCEPHALUS ASPER, Cuv.	105
Plate 24. bis. Fig. 1.—	TRIGLA PÆFILIO, Cuv. (<i>The Butterfly Gurnard</i>)	102
Fig. 2.—	COTTUS BUBALIS, Euphr. (<i>The Bull Head</i>)	103
Fig. 3.—	OPHICHTHYS LANGSDORFII, Cuv. and Val., Hist. Nat. des Poissons, Vol. IV.	
Plate 24. ter. Fig. 1.—	SCIÆNA PAMA	109
Fig. 2.—	OTOLITHUS RUBER, Cuv.	109
Fig. 3.—	OTOLITHUS TERROE, Cuv. and Vall.; or Lutjan de Cayenne, Lacep.	109

	PISCES.	Vol. II.	Page
Plate 25. Fig. 1.—	PLATYCEPHALUS GRANDISPINIS . . .	. . .	105
Fig. 2.—	SCORPÆNA NESOGALLICA, Cuv. . .	. . .	105
Fig. 3.—	TÆNIANOTUS TRIACANTHUS, Cuv. . .	. . .	105
2nd. Plate 25. Fig. 1.—	CHEILODACTYLUS ANTONII . . .	. . .	112
Fig. 2.—	AMPHIPRIOR CHRYSOGASTER . . .	. . .	113
Fig. 3.—	HELIASES FRENATUS . . .	. . .	114
Fig. 4.—	Head of the SCOLOPSIDES LYCOGENIS . . .	. . .	113
Fig. 5.—	Head of the PREMNAS SEMICINCTUS . . .	. . .	113
Fig. 6.—	Head of the DASYLLUS MARGINATUS . . .	. . .	114
Fig. 7.—	Head of the POMACENTRUS FASCIATUS . . .	. . .	113
Fig. 8.—	Head of the GLYPHISODON CÆLESTINUS . . .	. . .	114
Plate 25. bis. Fig. 1.—	SEBASTES NORVEGICUS, Cuv. . .	. . .	106
Fig. 2.—	BLEPSIAS VILLOSUM, Cuv. . .	. . .	106
Fig. 3.—	PTEROIS VOLITANS, Cuv. . .	. . .	106
Plate 25. ter. Fig. 1.—	OTOLITHUS GUATUCUPA, Marcg. . .	. . .	109
Fig. 2.—	ANCYLODON PARVIPINNIS, Cuv. and Val. . .	. . .	110
Fig. 3.—	CORVINA SEMILUCTUOSA, Cuv. . .	. . .	110
Plate 26. Fig. 1.—	SEBASTES VARIABILIS, Cuv. . .	. . .	106
Fig. 2.—	BLEPSIAS TRILOBUS, Cuv. . .	. . .	105
Fig. 3.—	APISTES MARMORATUS, Cuv. . .	. . .	107
2nd. Plate 26. Fig. 1.—	PAGELLUS CENTRODONTUS . . .	. . .	116
Fig. 2.—	BOOPS SALPA . . .	. . .	117
Fig. 3.—	Head and teeth of the SARGUS RONDELETHI (<i>The Sargus of Rondelet</i>) . . .	. . .	115
Fig. 4.—	Head and Dentition of the CHRYSOPHRYS AURATA, Lin. (<i>The Golden Eye-brow</i>) . . .	. . .	115
Fig. 5.—	Head and Dentition of the PAGELLUS ERYTHRINUS, Lin. (<i>The Pagel</i>) . . .	. . .	116
Plate 26. bis. Fig. 1.—	EQUES PUNCTATUS . . .	. . .	111
Fig. 2.—	BORIDIA GROSSIDENS, Cuv. and Val.* . .	. . .	111
Fig. 3.—	ELEGINUS MACLOVINUS, Cuv. and Val. † . .	. . .	111
Plate 26. ter. Fig. 1.—	HÆMULON QUADRILINEATUM, Cuv. and Val. . .	. . .	111
Fig. 2.—	HÆMULON HETERODON, Desm. . .	. . .	111
Fig. 3.—	PRISTIPOMA BILINEATUM, Cuv. . .	. . .	112
Plate 26. quar. Fig. 1.—	PREMNAS SEMICINCTUS . . .	. . .	113
Figs. 2, 3.—	The Brain of the SCIÆNA PAMA; Bola Pama, Buchanan . . .	. . .	109
Fig. 4.—	DASYLLUS MARGINATUS, Ehr. . .	. . .	114
Plate 27. Fig. 1.—	AGRIOPUS PERUVIANUS, Cuv. . .	. . .	107
Fig. 2.—	PELOR MACULATUM, Cuv. . .	. . .	107
Fig. 3.—	SYNANCEYA ELONGATA, Cuv.‡ . .	. . .	107

* A new species of *Sciænoides* with two dorsals, which possesses some of the characters of the *Corvina*, with the addition of numerous large teeth in both jaws.

† Another new species of *Sciænoides* with two dorsals, slightly different from the preceding, and not possessing those large teeth, which is their chief characteristic.

‡ A new species described by Cuvier and Vall. in the fourth volume of their *Ichthyology*.

PISCES.		Vol. II. Page
Plate 27. ter.	Fig. 1.—LOBOTES SOMNOLENTUS, Cuv.	. 112
	Fig. 2.—DIAGRAMMA ORIENTALE, Cuv.	. 112
	Fig. 3.—DIAGRAMMA CARVIFRONS, Cuv.	. 112
2nd. Plate 27. ter.	Fig. 1.—GLYPHISODON KORUSCHI, Cuv.	. 114
	Fig. 2.—AMPHIPRION LATICLAIVUS, Cuv.	. 113
	Fig. 3.—AMPHIPRION TUNICATUS, Cuv.	. 113
Plate 27. quar.	Fig. 1.—GASTEROSTEUS TRACHURUS, Cuv. and Val.	. 108
	Fig. 2.—GASTEROSTEUS GYMNURUS, Cuv. (<i>The Stickle-back</i>)	. 108
	Fig. 3.—GASTEROSTEUS NOVEBORACENSIS, Cuv. and Val.	. 108
	Fig. 4.—GASTEROSTEUS LEIURUS, Cuv. and Val.	. 108
Plate 28.	Fig. 1.—MONOCENTRIS JAPONICA, Cuv.	. 107
	Fig. 2.—GASTEROSTEUS BRACHYCENTRUS, Cuv. (<i>The Three-spined Stickle-back</i>).	. 108
	Fig. 3.—OREOSOMA CONIFERUM, Cuv.	. 108
Plate 28. bis.	Fig. 1.—LARIMUS BREVICEPS, Cuv. (<i>The Larime</i>)*	

* After all the groups that have been described, and which compose the regular series of Sciænoides with two dorsals, there still remains some fish of this family which escape all the characters assigned to any of them, and which, should each become the type of a peculiar group to which we ought to give a generic name, we will call them if you please anomalous Sciænas; but remembering that nature acknowledges nothing anomalous in what exists, and that there is no anomaly, but relatively to the incomplete abstractions of our mind. Cuvier has given the name of *Larimus* to these fish. They are Sciænoides with two dorsals, teeth as the pile on velvet; the front of the cranium does not project forward, and the snout is very short; their preoperculum is slightly indented.

The *L. breviceps*, Cuv. resembles the *Corvina* in almost everything; but far from having the snout swelled and prominent, it has it flat and extremely short as in the *Barber*, (*Serranus anthias*); so that its eye, which is large, is in the anterior half of the length of the head; nevertheless, the jaws are cavernous, and there are no teeth in the palate. The length of the head measures nearly the fourth of the whole length, and the height of the body slightly exceeds the length of the head. The opening of the mouth descends backward; the openings of the nostril are all near the anterior edge of the eye. There is no pore to the lower jaw. The teeth are soft, on a very narrow band. The under orbital is not more distinguished than in the other Sciænas, and gives the same shelter to a part of the maxillary; all the head except the lips, and the maxillary is scaly. There are scales even on the lower jaw, but not on the membrane of the gills, which are well cut, and have seven rays; of which the upper are flat, and the under very small. The preoperculum has the border wide and almost without any apparent indentations. The bone of the operculum terminates in two points, but concealed, obtuse, and so frail as scarcely to be felt. The first dorsal is triangular and is not half the height of the body; it has ten spiny rays disposed as usual. The second has one spiny and twenty-eight soft rays. The scales ascend between the rays, even to the half of its height. The pectorals are long and pointed; the ventrals wide, and almost equal to the pectorals in length. The anal less in length than in height, has only seven soft rays, but its second spine is strong as in the *corvines*. This fin is placed under the middle of the second dorsal, and much behind the anus, which is exactly between the anal and the ventrals, under the commencement of the second dorsal. The caudal is rhomboidal; it has a line of scales on its middle. The scales on the body are very large: there are about forty-five on a longitudinal line, and fifteen on a vertical. There are some between the bases of the dorsal and the anal. The lateral line is parallel to the back, and one third above, as in the greater part of the Sciænas. The

	PISCES.	Vol. II. Page
Plate 28. bis. Fig. 2.—	LEPIPTERUS FRANCISCI, Cuv. (<i>The Lepipterus of the Island of St. Francis</i>)*	111
Fig. 3.—	CORVINA OCELLATA, Cuv. (<i>The Spotted Corvina</i>)	110
Fig. 4.—	Anatomical details of the Brain of the ANABAS SENNAI.	144
Fig. 5.—	Anatomical details of the Brain of the OPHICEPHALE.	146
2nd. Plate 28. bis. Fig. 1.—	POGONIAS FASCIATUS, Cuv. (<i>The Banded Pogonias</i>)	110
Fig. 2.—	UMBRINA COROIDES, Cuv.	110
Fig. 3.—	MICROPOGON LINEATUS, Cuv.; Umbrina fourneiri, Desmar.	111

whole of this fish is silvered; its back, tinted with grey brown, has brownish oblique lines, which descend in advancing towards the tail; on the flank these lines become longitudinal; a little lower down they fade away; and there are none on the lower part. The membrane of the first dorsal is blackish, with a white triangular spot at its base in each interval of the rays. The individual from which our drawing was taken, is seven to eight inches in length. It was M. Delalande who brought the first Larimes to Europe from Brazils, but there have been recently several received from St. Domingo through M. Ricord. It is called in that island *silver-fish*, on account of its colour, which in its fresh state is as *brilliant* (according to our traveller) as that of the purest mercury. M. Ricord adds that this fish is a foot long, that its flesh is bad, and only eaten by the poor.

* The name of *Lepipterus* designates *Sciænoides* with two dorsals, teeth as the pile on velvet, prolonged snout, the front of the cranium rather concave, and the vertical fins of which, are very scaly. We know only one—the *Lepipterus Francisci*. This fish seems also to resemble the *Corvina*, by its soft teeth and its large anal spine: but it is a *Corvina* with the front of the cranium lengthened, and even a little concave; besides, the scales which cover its second dorsal, and its caudal, approximates it to the *Eques* and to the *Polynemes*. Its general appearance is similar to the *Otolithus taroe*, Cuv.; but, with a little attention, it is easily distinguished from it. It is a fish altogether of an elongated form, head long, front of the cranium rather concave. Its height is only the sixth of its length, and its head is almost the fourth; but its head is a third less in height than in length. The under orbital, covered by scales, which do not permit us to distinguish it from the cheek, forms a border, under which the upper jaw retires, as in the *Ombrina*; the mouth is very small, and it has very fine soft teeth, like the pile on velvet, in the two jaws only. All the opercular pieces are scaly, like the cranium and the snout. The preoperculum has some indentations slightly marked towards its angle, which is rounded. The bone of the operculum ends by a single flat point. The pectoral is moderate and pointed; the ventral proceeds a little further back than it, and passes it. The first dorsal rises in the middle of the pectoral; it has ten spiny rays, very weak and little elevated, the first of which is very short; the second dorsal has a spiny ray and thirty-three soft ones; it is nearly of equal height everywhere. The caudal is rounded. They are both completely scaly, so that even in the caudal it is difficult to count the rays. The anal only occupies a small space in length, under the middle of the second dorsal. It is twice as high as it is long. Its first spine is very short; the second, compressed and arched like a sabre, is wider and stronger than in any other *Sciæna*; there are afterwards seven soft rays and some scales between them. The scales of the body are smooth, fine, and slightly striated on the edges. There is one stout spine, rather free, but not scaly, formed by the coracoidien, in the middle of the pectoral. The lateral line is nearly parallel to the back, and marked by simple but continuous tubercles.

This fish is nineteen or twenty inches long, is entirely of silver colour, with very numerous oblique, grey, or bluish lines throughout its entire length. There is a continuation of brown lines in the intervals of the rays of the first dorsal, and brown dots on those of the second. The other fins have only spots. This is one of the numerous acquisitions to natural history, procured by M. Augustine St. Hilaire. He took it in the river of St. Francis, in Brazils.

PISCES.

Vol. II. Page

3rd. Plate 28. bis. Fig. 1.— <i>MÆNA VOMERINA</i> , Cuv. ; A new species from the Mediterranean.	118
Fig. 2.— <i>BOOPS VULGARIS</i> , Cuv.	117
Fig. 3.— <i>APHAREUS CÆRULESCENS</i> , Cuv.*	119
Fig. 4.—A fragment of the intermaxillary jaw of a <i>Daurades</i> , with the Molars detached; <i>Chrysophys auratus</i> , Cuv.	115
Fig. 5.—The superior intermaxillary jaw of a <i>Sargus. a.</i> The incisors; <i>b.</i> The germ of an incisor tooth; <i>c.</i> The molars.	115
Plate 28. ter. Fig. 1.— <i>LATILUS DOLIATUS</i> †	112
Fig. 2.— <i>CHEILODACTYLUS ZONATUS</i> , Cuv.	112
Fig. 3.— <i>MACQUARIA AUSTRALASIÆ</i> ,‡ Cuv.	112
2nd. Plate 28. ter. Fig. 1.— <i>APsilus FUSCUS</i> , Cuv. (<i>The Brown Apilus</i>)§	93
Fig. 2.— <i>CHÆTODON STRIGATUS</i> , Langsd.	120
Fig. 3.— <i>CHÆTODON RETICULATUS</i>	120
Plate 28. quar. Fig. 1.— <i>CENTRARCHUS SPAROIDES</i> ; <i>Labrus sparoides</i> , Lacep.	94
Fig. 2.— <i>RYPTICUS ARENATUS</i> , Cuv. and Val.	92
Fig. 3.— <i>CIRRMITES FASCIATUS</i> (<i>The Banded Cirrhit</i>). A new species very nearly allied to the <i>Cirrhit. aprinus</i> .	93
2nd. Plate 28. quar. Fig. 1.— <i>TÆNIANOTUS TRIACANTHUS</i> , Lacep. For another view, see pl. 25, fig. 3	105
Fig. 2.— <i>APISTUS TRACHINOIDES</i>|| . . . . .	136

* *Labre fourche et Caranxomore Sacrestin* of Lacep. A fish of the family *Menides* but not classed by Cuvier; its place should be after the *Gerries*.

† A new species brought by MM. Quoy and Gaimard from the Isle of France. It is a neighbouring species to the *Cheilodactylus zonatus*.

‡ A new species discovered in Macquarie River, New Holland. It approaches closely to the *Latilus doliatus* and the *Coryphène chinoise*, Lacep.

§ It is a new species found by MM. Quoy and Gaimard during their second voyage, and closely approximates to the *Grystes Macquariensis*.

|| This is one of the most remarkable among all the little *Apistes*. It was sent from Java by Messrs Kuhl and Van Hasselt. The three first thorny rays of its dorsal, placed on the neck, are so distant from the others, and the membrane that unites them to the rest of the fin is so low, that they form, it may be said, a distinct fin, so that at the first glance we are inclined to take the fish for a *Trachinus*; but we are quickly undeceived when we remark that the rays following are also thorny, on almost the whole length of the dorsal; in short its figure is nearly that of the *Scorpena scrofa*. The head resembles that of a *Scorpena*; the profile scarcely descending at all. The eyes of middling size, are separated by an interval of double their diameter; the lower jaw ascends obliquely to meet the other: there are soft teeth in the jaws, before the vomer, and in the palate; the orbit and the cranium have only slight bones without points. The under anterior orbital has two sharp points, of which the upper, rather longer than the other, does not go beyond the under part of the middle of the orbit. The great sub-orbital is only marked by some projecting wrinkles. The preoperculum is rounded, has a very short spine, followed by three small flat teeth; the operculum has two bones and two little points: there are only six rays to the gills, the membrane of which is much sloped. The first dorsal spine ascends above the edge of the preoperculum, and the two following proceed almost from the same points; the fourth is on the anterior third of the pectoral; the fifth and last on the anterior third of the anal: all are straight, very strong, and nearly uniform. The end of the dorsal is only composed of four branchial rays, of which the fourth is attached above the tail the whole of its length, without, however, quite extending to the caudal. The anal has three spines, and also four branchial rays, of which the last attaches itself like that of the dorsal,

	PISCES.	Vol. II. Page
2nd. Plate 28. quar.	Fig. 3.— <i>APISTUS MONODACTYLUS</i> , Cuv.; <i>Scorpena monodactyla</i> , Bl. and Schn.	106
Plate 29. Fig. 1.	— <i>SCIENA AQUILLA</i> ; <i>S. umbra</i> , Cuv.	109
Fig. 2.	— <i>CORVINA FURCÆA</i> , Cuv.	110
Fig. 3.	— <i>JOHNIUS SENEGALENSIS</i> , Cuv.	110
Fig. 4.	—Head of the <i>OTOLITHUS RUBER</i> , Cuv.	109
Fig. 5.	—Head of the <i>ANCYLODON PARVIPPINNIS</i> . A new species from the Coast of Cayenne.	110
Fig. 6.	—Head of the <i>UMBRINA COROIDES</i> . A new species from Brazil	110
Fig. 7.	—Head of the <i>POGONIAS FASCIATUS</i>	111
2nd. Plate 29. Fig. 1.	— <i>NOMEUS PERONII</i> (<i>The Shepherd Fish</i>)	131
Fig. 2.	— <i>CARANX BOOPS</i> (<i>The False Mackerel or Carungul</i>)	132
Fig. 3.	— <i>GALLUS ÆGYPTIACUS</i> (<i>The Egyptian Gallus</i>)	133
Plate 29. bis. Fig. 1.	— <i>OTOLITHUS TÆROE</i> , Cuv.	109
Fig. 2.	— <i>OTOLITHUS GUATUCUPA</i> ; <i>Otolithus striatus</i> , Cuv. (<i>The Striped Otolithe</i>)	109
Fig. 3.	— <i>CORVINA LOBATA</i> , Cuv.	109
Plate 29. ter. Fig. 1.	— <i>CHEILODACTYLUS CARPONENNIS</i> , Cuv.	112
Fig. 2.	— <i>SCOLOPSIDIS LYCOGENIS</i> , Cuv.	113
Fig. 3.	— <i>DIAGRAMMA GATERINA</i> , Cuv.	112
2nd. Plate 29. ter. Fig. 1.	— <i>CHÆTODON STRIGANGULUS</i> , Sol.	120
Fig. 2.	— <i>CHÆTODON LUNULA</i>	120
Fig. 3.	— <i>CHÆTODON EPHIPPIMUM</i> , Cuv.*	120
Plate 30. Fig. 1.	— <i>EQUES BALTEATUS</i>	111
Fig. 2.	— <i>LOBOTES ERATE</i>	112
Fig. 3.	—Head of the <i>HÆMULION HETERODON</i>	111
Fig. 4.	—Head of the <i>PRISTIPOMA BILINEATUM</i>	112
Fig. 5.	—Head of the <i>DIAGRAMMA ORIENTALE</i>	112
Plate 30. bis. Fig. 1.	— <i>LEIOSTOMUS HUMERALIS</i> ,; or <i>Johnius humeralis</i> , Cuv.	110
Fig. 2.	— <i>NEBRIS MICROPS</i> , Cuv. (<i>The Small-eyed Nebris</i>)†	110
Fig. 3.	— <i>CORVINA DENTEX</i> (<i>The Many-tooth Corvina</i>)	110

but remains rather further from the caudal: the latter is rounded and composed of twelve entire rays, with some shorter ones above and below. The pectoral, very sharp, of less than a quarter of the total length, has twelve rays, all branched. The ventral composed as usual, and half attached, is one fourth shorter.

The body of this little fish when it begins to dry, shows some very small scales, as if absorbed in the skin; its epidermis forms very fine vertical wrinkles. The lateral line is straight, and on the upper fifth, is marked by oblique tubercles. The general colour appears to be a red brown, dotted with white on the sides of the head and under the jaw, which changes to a silvery white under the throat and breast. The dorsal is crossed almost vertically by four or five irregular blackish bands, among which are small grey lines. The anal has two or three of these bands and the same lines between them. There is one at the base of the caudal; on the rest of which are lines of brown dots, slightly marked on a white ground. The pectoral is also crossed by lines of dots or little brown spots; the ventral is whitish, and at the end black; sometimes it has also a blackish spot crosswise. The individual from which our figure is taken, measured two inches and a half long.

* A new species found by M.M. Lesson and Garnot, near one of the Society Islands.

† A new species from the neighbourhood of Surinam, which differs in a few sim-

	PISCES.	Vol. II. Page
2nd Plate 30. bis.	Fig. 1.— <i>SARGUS ANNULARIS</i> , Cuv.	115
	Fig. 2.— <i>SARGUS RHOMBOIDES</i> , Cuv.	115
	Fig. 3.— <i>CHARAX PUNTAZZO</i> , Cuv.; <i>Sparus Puntazzo</i> Gmelin, (<i>The Common Puntazzo</i>)	115
Plate 30. ter.	Fig. 1.— <i>ZANCLUS CORNUTUS</i> ; <i>Chætodon cornutus</i> , Lin.	121
	Fig. 2.— <i>HENIOCHUS MONOCEROS</i> , (<i>The Coachman</i>)	121
2nd. Plate 30. ter.	Fig. 1.— <i>CHRY SOPH RYS GIBBICEPS</i> , Cuv.*	115
	Fig. 2.— <i>CHRY SOPH RYS CRASSIROSTRIS</i> , Cuv.†	115
	Fig. 3.— <i>CHRY SOPH RYS AURATA</i> , Cuv. (<i>The Golden eye-brow</i>)	115
Plate 30. quar.	Fig. 1.— <i>SCATOPHAGUS ORNATUS</i> , Cuv.‡	121
	Fig. 2.— <i>TAURICHTHYS VARIUS</i> , (<i>The Horseman of India</i>)	121
	Fig. 3.— <i>HOLACANTHUS TRIMACULATUS</i> ,	122

ple particulars from the *Corvina*. It forms the type of a new subdivision in the Ichthyology of our author.

* This is a new species of *Dory*, brought from the Cape by M. Delalande, and is strikingly separated from the others, by the extreme elevation of the crest of the cranium. A very excellently preserved specimen of this fish, may be seen among the anatomical collection of the Royal College of Surgeons.

† Individuals of this species were taken in the Mediterranean on the coast of Corsica, near Ajaccio, by M. Payraudeau, and on the coasts of the Peloponesus by M. Bory St. Vincent. We find a figure of them also among some plates engraved in Spain, and which have not yet, we believe, been published; so that though more rare than the *Sparus Auratus*, Lin., it seems to inhabit the same parts. It is known by the thickness of its snout, as well as by the greater length of its body, its height being contained three times and a half in its length; the neck is much more elevated in proportion; the eyes are larger; the space between the eyes wider and projects more; the lower edge of the under orbital is more arched; the preoperculum more rounded; its border straighter, but equally bare. The interoperculum is much larger, and crosses under the throat with that of the opposite side; the jaws are much swelled; there are six large incisors, and four rows of grinders in the upper jaw, and three in the under; they are larger and wider apart; the ovalar tooth is more rounded; the dorsal is lower; the pectoral rather wider. The ventral rays are very strong, and extend themselves in the form of a large fan. The number of rays are as follows: D. 11—13; A. 3—11, C. 17; P. 15; V. 1—5. The scales are close, higher than wide; we have counted more than eighty, from the gill to the end of the tail; the lateral line is almost straight. The individual we saw, was nearly as fresh as when taken out of the water; the colour is deep blue on the back with bright gold reflexions; these reflexes proceeded from a golden streak traced on each scale. On the shoulder, and on the top of the operculum, is seen a large black spot. The front of the cranium is blue; the face is bluish, with copper reflexes. Between the eyes there is a crescent more arched than that of the common *Dory*, and of the most beautiful colour of polished gold. On each temple in front of the superscapular, is a very beautiful spot, as brilliant as the crescent. The under part of the orbit is also gilt, as well as the border of the preoperculum. The lower part of the operculum, and the lower jaw, are similar to the red of polished and brilliant copper; the fins appear bluish grey. The individual obtained near the coast of Corsica, was about eighteen inches long; that of the Morea only a foot, and yet its large oval tooth was already out. None of the authors, we have consulted, appear to have any knowledge of this beautiful *Dory*, which is equal to the other in the brilliancy of its colours.

‡ A new species found by MM. Quoy and Gaimard near Amboyna, and figured by Cuvier and Val., in their Ichthyology under this name. It forms part of a new subdivision, in which is embraced the *Chætodon tetracanthus* of Lacepede.

	PISCES.	Vol. II. Page
Plate 31. Fig. 1.—	SMARIS ALCEDO, Riss. (<i>The Blue-spotted Picarel</i>)	118
Fig. 2.—	CÆSIO TILE, Cuv.	118
Fig. 3.—	Head of the MÆNA VOMERINA, Cuv. (<i>Vomerine Mendole</i>)	
	A new species from the Mediterranean	118
Fig. 4.—	Head of the GERRES PLUMIERI, Cuv.	119
Plate 31. bis. Fig. 1.—	PAGELLUS LITHOGNATHUS, Cuv. ; <i>Pagrus lithognathus</i>	116
Fig. 2.—	PAGELLUS ERYTHRINUS, Cuv. (<i>The Pagel</i>)	116
Fig. 3.—	PAGELLUS CALAMUS, Cuv.	116
Plate 31. ter. Fig. 1.—	LETHRYNUS GENIVITTATUS, Cuv.	117
Fig. 2.—	CANTHARUS VULGARIS, Cuv.	117
Fig. 3.—	BOOPS VULGARIS, Cuv.	117
Plate 31. quar. Fig. 1.—	HOLACANTHUS SEMI-CIRCULATUS, Cuv.	122
Fig. 2.—	HOLACANTHUS LAMARCKII, Lacep.	122
Fig. 3.—	POMACANTHUS CINGULATUS, Cuv.	122
Plate 32. Fig. 1.—	CAËTODON SETIFER, Cuv.	121
Fig. 2.—	EPHIPPIUS ORBIS, Cuv. (<i>The Horseman</i>)	121
Fig. 3.—	Head of the EPHIPPUS LONGIROSTRIS,	121
Plate 32. bis. Fig. 1.—	DENTEX PERONII, Cuv. (<i>Peron's Dentex</i>)	116
Fig. 2.—	DENTEX FILAMENTOSUS, Cuv.	116
Fig. 3.—	DENTEX VULGARIS, Cuv. (<i>The Common Dentex</i>)	116
Plate 32. ter. Fig. 1.—	CHELMON LONGIROSTRIS, Cuv. (<i>The Long-mouthed Chelmon</i>)	121
Fig. 2.—	ASPIDOPHORUS MONOPTERYGIUS ; <i>Cottus Monopterygius</i> , Bl. (<i>The Aspidophorus with a single Dorsal</i>)	104
Fig. 3.—	APRION VIRESCENS, Cuv.*	104
2nd. Plate 32. ter. Fig. 1.—	SPIROBRANCHUS CAPENSIS, Cuv.	145
Fig. 2.—	TRICHOPUS TRICHOPTERUS, Lacep.	145
Fig. 3.—	Anatomy of the Brain of the EPHIPPUS GIGAS, (<i>The Gigantic Horseman</i>)	121
Fig. 4.—	Shoulder bone,	121
Figs. 5, 6.—	Interspinal and Anal bones of the EPHIPPUS GIGAS	121
Plate 32. quar. Fig. 1.—	ANABAS SCANDENS, Cuv. ; <i>Pereis scandens</i> , Dald.	144
Fig. 2.—	PSETTUS SEBÆ, Cuv.	122
Fig. 3.—	The Labyrinthal Organ of the OPHICEPHALUS STRIATUS, Bl.	146
Fig. 4.—	Anatomy of the Brain of the OSPHROMENUS GOURAMI, Lacep.	145
Plate 33. Fig. 1.—	HOLACANTHUS CILIARIS, Cuv.	122
Fig. 2.—	POMACANTHUS AUREUS, Cuv.	122
2nd. Plate 33. Fig. 1.—	SCOMBER SCOMBRUS, (<i>The Common Mackerel</i>)	124
Fig. 2.—	THYNNUS VULGARIS, (<i>The Tunny</i>)	125
Fig. 3.—	AUXIS PELEI, (<i>The Auxis</i>)	126

* This is a new species which combines several of the characteristics of the great family of Perches with a single dorsal, with many of the peculiarities of the Sparoides. It is fully described by Cuvier and Val., in their *Ichthyology*, vol. vi, p. 544, &c. Its place in this arrangement, is immediately after *Aspidophoræ*.

PISCES.

Vol. II. Page

Fig. 4.—The mouth with the teeth of the <i>AUXIS</i> ,	126
Fig. 5.—The mouth of <i>PELAMYS SARDA</i> ,	126

Plate 33. bis. Fig. 1.— <i>PENTAPUS AUROLINEATUS</i> , Cuv. (<i>The Golden-striped Pentapode</i>)	117
Fig. 2.— <i>PENTAPUS POROSUS</i> , Cuv.	117
Fig. 3.— <i>LETHRYNUS ESCULENTUS</i> , Cuv.	117
Plate 33. ter. Fig. 1.— <i>OPHICEPHALUS LIMBATUS</i> ; or <i>Marginatus</i> , Cuv.	146
Fig. 2.— <i>OPHICEPHALUS STRIATUS</i> , Bl.	146
Fig. 3.— <i>OPHICEPHALUS GRANDINOSUS</i> , Cuv.	146
Plate 33. quar. Fig. 1.— <i>COLISA VULGARIS</i> ; <i>Trichopodus Colisa</i> , Buchanan	144
Fig. 2.— <i>MACROPODUS VENUSTUS</i> , Cuv. A new species,	144
Fig. 3.— <i>PLATAX GUTTULATUS</i> , Cuv.	122
Fig. 4.— <i>PLATAX PUNCTULATUS</i> , Cuv.	122
Plate 34. Fig. 1.— <i>PLATAX GAIMARDI</i> , Cuv.; a new species found by M. Gaimard, near New Guinea,	122
Fig. 2.— <i>PSETTUS RHOMBEUS</i> , Cuv.	122
Plate 34. bis. Fig. 1.— <i>EPHIPPIUS GOREENSIS</i> , Cuv. A new species nearly allied to the <i>Gigas</i>	121
Fig. 2.— <i>DREPANE PUNCTATA</i> , Cuv.; <i>Chaetodon punctata</i> , Lin.	121
Fig. 3.—Head of the <i>SPIROBRANCHE</i> ,	145
Fig. 4.—Head of the <i>MACROPODE</i> ,	144
Fig. 5.—Head of the Common <i>COLISA</i> ; <i>Trichopodus Colisa</i> , Buchanan,	144
Plate 34. ter. Fig. 1.— <i>THYNNUS PELAMYS</i> , Cuv. (<i>The Tropical Bonita</i> , or <i>Ray-bellied Tunny</i>)	125
Fig. 2.— <i>PELAMIS SARDA</i> , Cuv. (<i>The Common Pelamis</i>)	126
Fig. 2 a.—Dentition of the <i>PELAMIS SARDA</i> ,	125
Fig. 3.— <i>THYNNUS THUNNINA</i> , Nob. (<i>The Thonine</i>)	125
Fig. 4.—Head of the <i>XIPHIAS GLADIUS</i> , Lin. (<i>The Sword-fish</i>) a young subject	127
Fig. 5.—The same as fig. 4., but taken from a full grown Fish,	127
Plate 34. quar. Fig. 1.— <i>PIMELEPTERUS BOSCHII</i> , Lacep. (<i>The Fat-fin</i>)	123
Fig. 2.— <i>POLYACANTHUS HASSELTII</i> , Cuv. A new species discovered by Van Hasselt, on the coast of Java.	144
Fig. 3.— <i>BRAMA RAIL</i> , Bl. and Schn. (<i>The Sea Bream</i>)	123
Plate 35. Fig. 1.— <i>PIMELEPTERUS ALTIPINNIS</i> ,*	123
Fig. 2.— <i>DIPTERODON CAPENSIS</i> , (<i>The Cape Dipterodon</i>)	123
Fig. 3.—Head of the <i>PIMELEPTERUS BOSCHII</i> ; <i>Pimeleptere bosquier</i> , Lacep.	123
Plate 35. bis. Fig. 1.— <i>THYRSITES ATUN</i> , Cuv.; <i>Scomber atun</i> , Euph. and Lacep.	127
Fig. 2.— <i>CYBIUM TRITOR</i> , Cuv. A new species which approaches near to the <i>Cybius Commersoni</i> ,	127
Fig. 3.— <i>THYRSITES LEPIDOPOIDES</i> . A new species from the coast of Brazils	127

* A new species discovered by MM. Quoy and Gaimard, near the coast of New Guinea, which is remarkable for the height of the spines of the dorsal and anal fins; in other respects it is similar to the *P. Boschii*.

PISCES.		Vol. II.	Page
Plate 35. ter.	Fig. 1.—GEMPYLUS PROMETHEUS, Cuv.	.	127
	Fig. 2.—LEPIDOPUS ARGYREUS, Cuv.	.	127
	Fig. 3.—GEMPYLUS COLUBER, Cuv.	.	127
Plate 35. quar.	Fig. 1.—HELOSTOMA TEMMINCKII, Cuv.	.	144
	Fig. 2.—PEMPHERIS TAITENSIS, Cuv.	.	124
	Fig. 2.—TOXOTES JACULATOR, Cuv. (<i>The Archer Fish</i>)	.	125
Plate 36. Fig. 1.—	BRAMA RAI, Bl. (<i>The Sea Bream</i>). For another view, see		
	Pl. 34. quar. fig. 3.	.	123
	Fig. 2.—PEMPHERIS MEXICANA, Cuv.	.	123
	Fig. 3.—TOXOTES JACULATOR, Sch. (<i>The Archer Fish</i>). For another		
	view, see Pl. 35. quar. fig. 3.	.	125
Plate 36. ter. Fig. 1.—	GERRES PLUMIERI. A new species discovered in the		
	Atlantic, by Plumier.	.	119
	Fig. 2.—CÆSIO ERYTHROGASTER,*	.	118
	Fig. 3.—SMARIS CHRYSSELIS,†	.	118
Plate 37. ter. Fig. 1.—	ELACATE ATLANTICA; <i>Centronotus spinosus</i> , Mitchell		129
	Fig. 2.—LICHIA GLAYCOS; or, <i>L. gluaca</i> , Cuv.	.	129
	Fig. 3.—LICHIA VADIGO, Rondel	.	129
Plate 37. quar. Fig. 1.—	THYNNUS ALALONGA, (<i>The Germon</i>)	.	125
	Fig. 2.—THYNNUS BRACHYPTERUS, Cuv.	.	125
	Fig. 3.—TAYNNUS BREVIPINNIS,‡	.	125
Plate 38. Fig. 1.—	CYBIUM LINEOLATUM, Cuv. (<i>The long Tassard</i>)	.	126
	Fig. 2.—THYRSITES CHILENSIS, (<i>The White Thyrsites</i>)	.	127
	Fig. 3.—GEMPYLUS PROMETHEUS, (<i>The Gempyle</i>)§. For another		
	view, see Pl. 35. ter. fig. 1.	.	127
Plate 38. bis. Fig. 1.—	OLISTUS MALABARICUS, Cuv. and Val.	.	133
	Fig. 2.—SCYRIS INDICA, Cuv. and Val.	.	133
Plate 38. ter. Fig. 1.—	APOLECTUS STROMATEUS, Cuv.||	.	129
	Fig. 2.—CHORINEMUS SANCTI PETRI, Cuv.¶	.	129

* A new species discovered by MM. Kuhl and Van Hasselt, in the Indian Ocean. It is very similar to the *C. smar*, but not the same.

† Another species, which has been found in the Mediterranean, near to the coast of Sicily.

‡ The Mediterranean produces this new species of Tunny, which resembles the common one in every respect, except that the pectorals are much shorter.

§ A new species found near St. Helena, by MM. Quoy and Gaimard. It approaches closely to the *G. serpens* of Cuvier.

|| A small fish, specimens of which have been brought from Pondicherry by M. Sonnerat, and from the coast of Java by MM. Kuhl and Van Hasselt, which very much resembles a *Trichinotus*; except that the ventrals are attached to the under part of the throat, a circumstance which Cuvier, in his work on fishes, has thought sufficient to rank it as the type of a distinct genera. Its place should, therefore, be immediately after the *Trichinotus*, page 129.

¶ M. de Lacepede has called by the name of *Scomberoides*, those *Lichia* resembling the rest in the greater part of their organs; but of which the rays of the second dorsal or of the anal are either entirely detached, or united by a membrane so fragile, that it often entirely disappears; and they seem to form false fins, like those we have observed in the Mackerel and Tunnies. Not being able to retain the name of *Scomberoides*, since it would be so similar to that of the family, Cuvier has affixed to them, that of *Chorinemus*; one of which, the—*C. Sancti Petri*, a beautiful and large fish, was brought by M. Dussumier from the coast of Malabar, and is remarkable by a double range of spots on each flank. Its height is the

PISCES.

Vol. II. Page

Plate 38. ter. Fig. 3.—	TRACHINOTUS PAMPANUS, Cuv.*	129
Pate 38. quar. Fig. 1.—	TETRAPTERUS INDICUS, Cuv.	128
	Fig. 2.—Skeleton of the TETRAPTERUS BELONE, Ra.	128
Plate 39. Fig. 1.—	XIPHIAS GLADIUS, Lin. (<i>The Common Sword-Fish</i>)	127
	Fig. 2.—Same Fish, but of a younger age.	127
	Fig. 3.—TETRAPTURUS BELONE, Raf.	128
	Fig. 4.—HISTIOPHORUS PULCHELLUS.	128
Plate 39. ter. Fig. 1.—	RHYNCHICTYS PELAMIDIS, Cuv.†	94
	Fig. 2.—NANDUS MARMORATUS, Cuv.‡	94
	Fig. 3.—SCOMBER COLIAS, Gm. (<i>The Mediterranean Mackerel</i>)	125
Plate 40. Fig. 1.—	NAUCRATES INDICUS. A new species, which approaches closely to the <i>Scomber ductor</i> , Lin.	129
	Fig. 2.—MASTACEMBEUS MACULATUS. It is <i>Rhynchobdella maculata</i> Reinwardt.	130
	Fig. 3.—SERIOLA RIVOLII §	130
	Fig. 4.—Head of the ELACATE ATLANTICA; <i>Centronotus spinosus</i> , Mitchell	129
	Fig. 5.—Head of the RHYNCHOBDELLA ARAL	130
	Fig. 6.—Head of the MASTACEMBELUS ARMATUS; <i>Macragnathus armatus</i> , Lacep.	130
	Fig. 7.—Head of the NOTACANTHUS NASUS, Bl.	130
Plate 40. bis. Fig. 1.—	BOVICTHUS DIACANTHUS, Cuv.||	94

fifth of its length, its thickness one-third of its height. Its head one-fourth less high than long, is a fifth of the total length.

* A new species found near Brazils, and other parts of South America.

† It is to the researches of M. Dussumier, that we owe the knowledge of this singular little fish, which he found in the stomach of a Tropical Bonita in the Indian sea. It belongs to the group of Perches with eight rays to the gills and to the ventrals, consequently it is near the *Holocentri*; but it constitutes a new genus, known by a prolongation of the carina of the cranium in a point which advances beyond its mouth, almost the same as in the *Lepidoleprus*. The preoperculum has a projecting spine towards its angle; but the angle of the operculum has only very short spines, as in the *Myripristis*. We as yet only know one single species of this genus, which we have named *Rhynchichtys pelamidis*.

‡ There must be added to the division of *Percoides* with a single dorsal and six branchial rays, a fish very common in the lakes of Bengal; it is the *Coius nandus* of Buchanan. The description given by this author, however, leaves us too many doubts to be able to fix with correctness the place of this species; but M. Dussumier, to whom science is so much indebted, has recently brought to Europe a *nandus* as fresh as if it were just out of the water; which enables us to give a detailed and exact description of it. This fish we shall now make the type of a genus, to follow immediately after the *Doules*, p. 91. It is characterised by a very protractile mouth, furnished with fine short soft teeth, like the pile on velvet, in the two jaws, the palate and vomer. The preoperculum and interoperculum have their edges finely indented. The spine of the operculum is so small that it is difficult to perceive it. The protractibility of the upper jaw of this fish gives it an appearance quite different from the *Doules*, and makes it more resemble a *Mendole* with a shortened body. This affinity is increased, as the *Mendoles*, like this fish, have some teeth in the palate, but fewer in number, and very few in the vomer. However the *Nandus* cannot be placed in the family of the *Menides*, on account of the indentations of the operculum. We know but one kind of them—the *Nandus marmoratus*.

§ A species which approaches closely the *Seriola cosmopolita* of Cuvier. It was presented to the Cabinet Du Roi by the Duke of Rivoli.

|| We sought for a long time to know what the jugular fish could be, figured in the

PISCES.		Vol. II. Page
Plate 40. bis. Fig. 2.—	APHRITIS URVILLII, Cuv.*	94
	Fig. 3.—APLODACTYLUS PUNCTATUS, Cuv.†	94
Plate 41. bis. Fig. 1.—	NOTACANTHUS NASUS, Bl.	130
	Fig. 2.—MASTACEMBELUS ARMATUS, Cuv.; Macrognothrus armatus, Lacep.	130
	Fig. 3.—RHYNCHOEDELLA ARAL, Cuv.	130

twelfth volume of the Linneæan transactions by Captain Carmichael, under the name of *Callionymus diacanthus*, for it was easy to perceive that it was not a *Callionymus*. We have been fortunate enough to find it among the species collected at Valparaiso, from Chili, by M. d'Orbigny. It is a particular genus, near the *Trachinus*, having like them teeth as the pile on velvet in the jaws, in the palate and on the vomer, but is distinguished not only from the *Trachinus*, but also from all the other jugular Percoides, the *Percophis* excepted, by the seven rays of its branchiostegal membrane. The colour appears to have been blackish. The length of the individual is eight inches, the caudal not included. Captain Carmichael says his fish had the body olive colour marbled with greenish spots, and marked with white dots, and the iris of the eye brown. On his figure (pl. 26. vol. 12.) of the Linnæan transactions, twenty two rays are marked to the second dorsal; but in the text the author only enumerates twenty rays. The characters of the penultimate and antepenultimate rays prolonged from the anal, is well expressed in the figure that we quote.

* Cuvier found in the lot of fishes brought to Europe by Messrs. Quoy and Gaimard three small Percoides with jugular ventrals, originally from the soft waters of Van Dieman's land, which are all three of the same species, but which must become the type of a new genus, near that of the *Percophis*. (p. 94.) The name of *Aphritis* has been given to the genus, and that of *Aphritis Urvillii* to the species figured by us.

This species has a cylindric body, of which the diameter, in front of the anus, is the sixth of the total length; the colour is reddish, shaded, and marbled with greenish brown on the back. The fins are transparent. On the two dorsals, and on the caudal, we see two or three rows of small red dots.

† This fish forms a new genus of the family of Percoides with six branchial rays, and free rays to the pectorals, consequently near the *Cirrhitæ*; but it is easily distinguished from them, by the form of the teeth, which resemble those of the *Crenidens* Forsk., of the family of Sparoides. We give to this genus, the name of *Aplodactylus*, to recall the simple form of some of the pectoral rays, and to the species we have figured that of *Aplodactylus punctatus*. Its height measures the fourth of its total length. The thickness is contained twice and a half in the height; the snout is obtuse and rounded. The line of the profile of the head, ascends by an arched curve, sustained even to the occiput, from whence it rises, and ascends obliquely, following an almost straight direction, even to the base of the dorsal. The curve of the back is slight; that of the belly is rather more so. The height of the tail is only the third of that of the body, measured perpendicularly from the ventrals. The head is short, and swelled in front. It has its length contained four times and four-fifths in that of the body. Its height from the neck downward, is a fifth less than its length. The eyes, of moderate size, are on the first half of the head, and placed in the upper part of the cheek, without, however, the circle of the orbit encroaching on the line of the profile.

The scales are very small; there are more than a hundred and twenty between the gill and the caudal—seen separately, and through a magnifying glass, each of them presents a square surface, finely striated on the sides, and of which the radical edge is finely indented. The lateral line is traced beneath the third of the height, and forms slight undulations. On a white ground, brownish towards the back, the body is spotted with an infinite number of little blackish dots, equally spread over the fins, which are darker than those on the back.

M. Gay has likewise observed this fish; for we have found a coloured drawing of it among the drawings of this naturalist, which leads us to hope that the species is not very rare, and that we may receive other individuals.

	PISCES.	Vol. II. Page
Plate 42.	Fig. 1.—ZEUS FABER, Lin. (<i>The Common Dory</i>)	133
	Fig. 2.—LANPRIS GUTTATUS, Retz. (<i>The Moon Fish of Lacepede</i>)	134
	Fig. 3.—STROMATEUS FIATOLA, Lin. (<i>The Mediterranean Pomfret</i>)	135
Plate 42. bis.	Fig. 1.—ARGYREOSUS VOMER, Lacep. ; Zeus vomer, Lin.	133
	Fig. 2.—CARANX TRACHURUS, Lacep. ; Scomber trachurus, Lin.	131
	Fig. 3.—CARANX CHRYSOPHRYS, Cuv. A new species.	132
Plate 42. ter.	Fig. 1.—BLEPHARIS SUTOR, Cuv. (<i>The Cordonnier of Martinique</i>)	133
	Fig. 2.—GALLICHTYS MAJOR. A new species of Gallus nearly allied to the Zeus gallus, Lin.	133
Plate 43.	Fig. 1.—CORYPHÆNA AZORICA, Cuv. and Val.	137
	Fig. 2.—PTERACLIS TRICHIPTERUS, Cuv. and Val.	139
Plate 44.	Fig. 1.—GYMNETRUS FALX, Cuv.	139
Plate 45.	Fig. 1.—SIGANUS DOLIATUS, Cuv. and Val.	142
	Fig. 2.—ACANTHURUS DELISIANUS	142
	Fig. 3.—NASEUS LONGICORNIS	142
Plate 46.	Fig. 1.—ANABAS TESTUDINEUS, Bl. (<i>The Tree Climber</i>)	145
	Fig. 2.—POLYACANTHUS COLISA, Ham.	144
	Fig. 3.—OPHICEPHALUS SERPENTINUS. A new species found by Dr. Finlayson, near the coast of Siam	146
Plate 47.	Fig. 1.—MUGIL CEPHALUS, Cuv. (<i>The Common Mullet</i>)	146
	Fig. 2.—TETRAGONURUS CUVIERI, Risso.	148
	Fig. 3.—ATHERINA PRESBYTER, Cuv.	149
Plate 48.	Fig. 1.—BLENNIUS PALMICORNIS, Cuv.	150
	Fig. 2.—CLINUS PECTINIFER	151
	Fig. 3.—ZOARCES BLENNOIDES	152
Plate 49.	Fig. 1.—GOBIUS CAPITO, Cuv. (<i>The Great Goby or Sea Gudgeon</i>)	153
	Fig. 2.—GOBIOIDES BROUSSONNETII, Lacep. (<i>The great Gobioides of Broussonnet</i>)	154
	Fig. 3.—PERIOPHTALMUS FREYCINETII	154
Plate 50.	Fig. 1.—ELEOTRIS DORMITATRIX, Cuv. (<i>The Sleeper</i>)	155
	Fig. 2.—CALLIONYMUS FASCIATUS, Cuv. and Val. (<i>The Fasciated Callionymus</i>). A new species.	156
	Fig. 3.—CHIRUS DECAGRAMMUS, Pall. (<i>The Ten-striped Chirus</i>)	157
Plate 51.	Fig. 1.—LOPHIUS PISCATORIUS, Lin. (<i>The Common Angler, or Frog-Fish</i>)	158
	Fig. 2.—ANTENNARIUS NESOGALLICUS. A new species.	159
	Fig. 3.—BATRACHUS SURINAMENSIS, Bl.	160
Plate 52.	Fig. 1.—LABRUS VITTATUS, Quoy and Gaym. A new species.	161
	Fig. 2.—JULIS TRIMACULATA, Quoy and Gaym. A new species.	162
	Fig. 3.—CRENILABRUS CHABROLII, Less. A new species.	163
Plate 53.	Fig. 1.—CHROMIS NILOTICA, Cuv. (<i>The Egyptian Coracinus</i>)	165
	Fig. 2.—MALACANTHUS FURCATUS, Cuv. A new species.	166
	Fig. 3.—SCARUS CRETICUS, Aldrov. and Cuv. (<i>The Parrot-Fish</i>)	167
Plate 54.	Fig. 1.—EPIBULUS INSIDIATOR, Pall.	164
	Fig. 2.—GOMPHOSUS VIRIDIS, Cuv.	164
	Fig. 3.—XIRICHTHYS CYANIROSTRIS, Cuv. A new species	165

PISCES.		Vol. II. Page
Plate 55. Fig. 1.—	FISTULARIA TABACARIA, Bl. (<i>The Tobacco-pipe Fish, also called Flute-mouth</i>)	168
Fig. 2.—	CENTRISCUS SCOLOPAX, Lin. (<i>The Sea-Snipe</i>)	169
Fig. 3.—	AMPHISILE SCUTATUS, Lin. (<i>The Shielded Sea-Snip</i>)	169
Plate 56. Fig. 1.—	CYPRINUS AMARAS, (<i>The Amorous Carp</i>)	171
Fig. 2.—	GOBIO VULGARIS, (<i>The Common Gudgeon</i>)	172
Fig. 3.—	LABEO NILOTICUS, Geoff. (<i>The Mullet of the Nile</i>)	173
Plate 57. Fig. 1.—	LEUCISCUS IDUS, Bloch. (<i>The Albe, commonly called the White Fish</i>)	173
Fig. 2.—	COBITIS BARBATULA, Lin. (<i>The Common Bearded Loach</i>)	175
Fig. 3.—	PÆCILIA UNIPUNCTATA, Val. (<i>The One-dotted Pæcilia</i>)	176
Plate 58. Fig. 1.—	LEBIAS FASCIATA, Val. (<i>The Fasciated Lebias</i>)	176
Fig. 2.—	FUNDULUS BRASILIENSIS, Val. (<i>The Fundule of Brazil</i>)	176
Fig. 3.—	CYPRINODON FLAVULUS, Val.	177
Fig. 4.—	Anatomical details of the FUNDULUS FASCIATUS, Val. (<i>The Fasciated Fundule</i>)	176
Fig. 5.—	Dentition of the LEBIAS RHOMBOIDALIS, Val. (<i>The Rhomboid Lebias</i>)	176
Plate 59. Fig. 1.—	ESOX LUCIUS, Lin. (<i>The Common Pike</i>)	177
Fig. 2.—	MICROSTOMA MEDITERRANEA, Risso (<i>The Mediterranean Microstoma</i>)	178
Fig. 3.—	STOMIAS BARBATUS, Risso (<i>The Barbed Stomias</i>)	178
Plate 60. Fig. 1.—	SALANX FUSCUS, Cuv. and Val.	179
Fig. 2.—	SCOMBRESOX SAURUS, Bl.	180
Fig. 3.—	EXOCETUS ACUTUS, (<i>The Sharp-snouted Flying-Fish</i>). A new species	180
Plate 61. Fig. 1.—	MORMYRUS OXYRHINCHUS, Geoff. Cuv. (<i>The True Mormyrus oxyrhynchus of the Ancient Egyptians</i>)	182
Fig. 2.—	SCHILBE MYSTUS, Geoff. (<i>The Silure of the Nile</i>)	183
Fig. 3.—	SYNODONTIS SCHILAN, Geoff. (<i>The Schal of Egypt</i>)	185
Plate 62. Fig. 1.—	BAYARD FITILE, Cuv. and Val. A new species	185
Fig. 2.—	DORAS DORSALIS, Cuv. and Val. A new species	186
Fig. 3.—	HETEROBRANCHIUS PUNCTATA, Cuv. and Val. A new species	186
Plate 63. Fig. 1.—	PORCUS BAYAD, Geoff. and Cuv.	184
Fig. 2.—	Mouth of the PIMELODES BLOCHII, Cuv. and Val.	185
Fig. 3.—	PIOTOSUS ALBILABRIS, Cuv. and Val. A new species	187
Fig. 4.—	CALLICHTHYS LONGIFILIS, Cuv. and Val.	187
Plate 64. Fig. 1.—	ASPREDO OCTOCIRRUS, Cuv. A new species	188
Fig. 2.—	HYPOSTOMUS PLEIDTOMUS, Cuv.	189
Fig. 3.—	LORICARIA CATAPHRACTA, Lin.	189
Plate 65. Fig. 1.—	SALMO FARIO, Lin. (<i>The Common Trout</i>)	191
Fig. 2.—	MALLOTUS GÆRLANDICUS, Bl. Cuv. (<i>The Capelan</i>)	192
Fig. 3.—	COREGONUS OXYRHINCHUS, Lin. Cuv. (<i>The Laverett</i>)	193
Plate 66. Fig. 1.—	MYLETES HASSELQUISTII, Cuv. (<i>The Salmon of the Nile</i>)	196
Fig. 2.—	CURIMATA GILBERTII, Quoy. and Gaym.	194
Fig. 3.—	SAURUS MEDITERRANEUS, Cuv. (<i>The Mediterranean Saurus</i>)	197
Plate 67. Fig. 1.—	CLUPEA HARENGUS, Liu, (<i>The Common Herring</i>)	200
Fig. 2.—	GNATHOLOBUS MUCRONATUS, Lacep.; or Odontognathe aigüilloné	202

PISCES.

Vol. II. Page

Plate 67. Fig. 3.—	PRISTIGASTER AMERICANUS, Cuv. and Val. (<i>The American Pristigaster</i>)	. . . . .	203
Plate 68. Fig. 1.—	AMIA CALVA, Lin. (<i>The Amie</i>)	. . . . .	206
Fig. 2.—	LEPISOSTEUS OSSEUS, Lin. (<i>The Lepisosteus</i>)	. . . . .	207
Fig. 3.—	POLYPTERUS BICHR, Geoff. (<i>The Bichir</i>)	. . . . .	208
Plate 69. Fig. 1.—	MEGALOPS CYPRINOIDES, Bl. (<i>The Great Megalope</i>)	. . . . .	204
Fig. 2.—	CHIROCENTRUS DENTEX, Schn. (<i>The Many-toothed Chirocentrus</i>)	. . . . .	204
Fig. 3.—	ERYTHRINUS MALABARICUS, Bl. (<i>The Erythrin of Malabar</i>)	. . . . .	206
Plate 70. Fig. 1.—	GADUS MERLANGUS, Lin. (<i>The Whiting</i>)	. . . . .	210
Fig. 2.—	LOTA VULGARIS (<i>The Common Ling</i>)	. . . . .	210
Fig. 3.—	LEPIDOLEPRUS CÆLORHYNCHUS, Risso,	. . . . .	212
Plate 71. Fig. 1.—	PLATESSA LIMANDA, Lin. (<i>The Dab</i>)	. . . . .	214
Fig. 2.—	RHOMBUS; <i>Platessa rhombus</i> , Lin. (<i>The Barbu</i> or <i>oval Turbot</i>)	. . . . .	215
Fig. 3.—	ACHIRUS MARMORATUS, Lacep. (<i>The Marbled Achirus</i>)	. . . . .	217
Plate 72. Fig. 1.—	LEPADOGASTER GOVAN, Lacep.	. . . . .	217
Fig. 2.—	CYCLOPTERUS LUMPUS, Lin. (<i>The Lump Sucker</i>)	. . . . .	218
Fig. 3.—	ECHENEIS REMORA, Lin. (<i>The Remora</i>)	. . . . .	219
Plate 73. Fig. 1.—	MURÆNA ANGUILLA, Lin. (<i>The Common Eel</i>)	. . . . .	221
Fig. 2.—	GYMNOTUS ELECTRICUS, Lin. (<i>The Gymnotus, also called the Electrical Eel</i>)	. . . . .	225
Plate 74. Fig. 1.—	OPHIDIUM BARBATUM, Bl. (<i>The Common Donzelle</i>)	. . . . .	227
Fig. 2.—	AMMODYTES TOBIANUS, Bl. (<i>The Lancon</i>)	. . . . .	227
Fig. 3.—	AMMODYTES LANCEA, Penn. (<i>The Equille</i>)	. . . . .	228
Plate 75. Fig. 1.—	SYNGNATHUS VIRIDIS, Risso (<i>The Green Sea Eel</i>)	. . . . .	229
Fig. 2.—	HIPPOCAMPUS BREVIROSTRIS, Cuv. (<i>The Short-snouted Sea Horse</i>)	. . . . .	229
Fig. 3.—	PEGASUS DRACO, Lin.	. . . . .	230
Plate 76. Fig. 1.—	TRIODON BURSARIUS, Reinw.	. . . . .	231
Fig. 2.—	BALISTES RECTANGULUS, Schn. (<i>The File-Fish</i>)	. . . . .	235
Fig. 3.—	OSTRACION TRIQUETER, Bl.	. . . . .	237
Plate 77. Fig. 1.—	ACIPENSER STURIO, Lin. (<i>The Common Sturgeon</i>)	. . . . .	239
Fig. 2.—	SPATULARIA SPATULA, Maud.	. . . . .	240
Fig. 3.—	CALLORHYNCHUS ANTARCTICUS, Lin. (<i>The Antarctic Chimæra</i>)	. . . . .	241
Plate 78. Fig. 1.—	SCYLLIUM MALAISIANUM, Lesson.	. . . . .	243
Fig. 2.—	SQUALUS CARCHARIAS, Lin. (<i>The White Shark</i>)	. . . . .	244
Fig. 3.—	ZYGÆNA MALLEUS, Val.	. . . . .	247
Fig. 4.—	PRISTIS ANTIQUORUM, Lath. (<i>The Common Saw-Fish</i>)	. . . . .	248
Plate 79. Fig. 1.—	RHINOBATUS LÆVIS (<i>The Smooth Rhinobatus</i>)	. . . . .	249
Fig. 2.—	TORPEDO NARKE, Riss. (<i>The Ocellated Torpedo</i>)	. . . . .	250
Fig. 3.—	TRYGON HALGANI, Less.*	. . . . .	251
Fig. 4.—	CEPHALOPTERA GIORNA, Lacep.	. . . . .	253

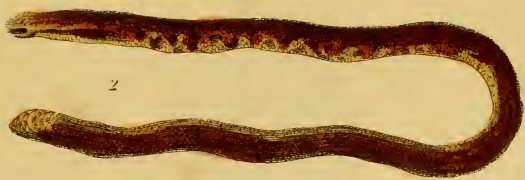
* A newly discovered species of Ray, nearly allied to the *Raia Sephen.*, Forsk.

PISCES.		Vol. II. Page
Plate 80. Fig. 1.—	PETROMYZON MARINUS, Lin. (<i>The Sea Lamprey</i>)	. 254
Fig. 2.—	Anatomical details of the PETROMYZON FLUVIATILIS, Lin. (<i>The River Lamprey</i>)	. 254
Fig. 3.—	AMMOÆTES BRANCHIALIS, Lin. (<i>The Common Pride</i>)	. 256
Fig. 4.—	Anatomical details of the AMMOÆTES RUBER, Lacep. (<i>The Red Pride</i>)	. 256



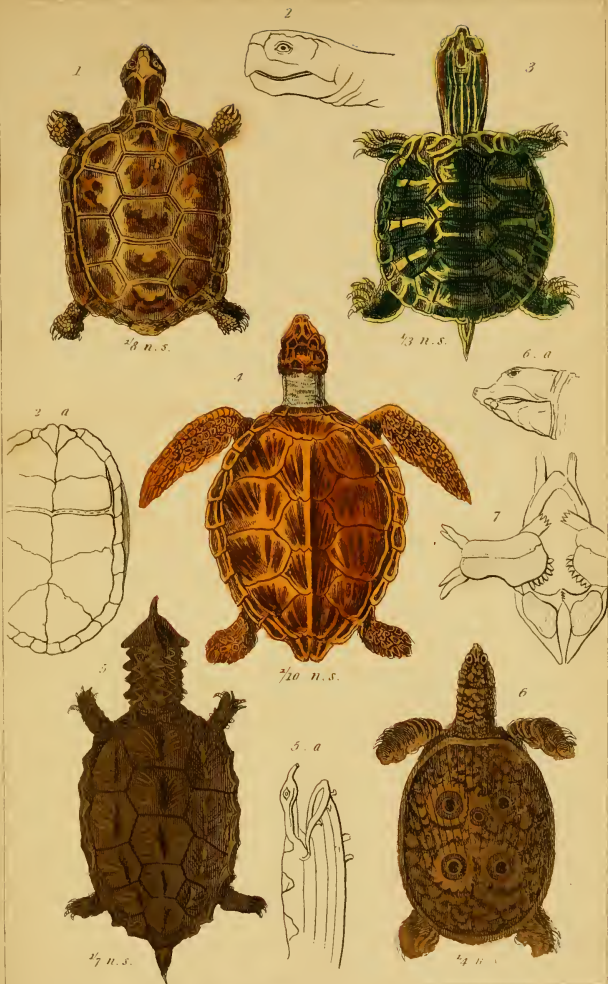
PISCES, OSTEOLOGY.

Plate 1.—	Osteology of the <i>Perch</i> . The skeleton	. 269
Plate 2.—	The front and back of the skull, and the bones of the branchiæ	. 269
Plate 3.—	The bones of the face, the branchiæ, the shoulder, cavity of the stomach, and the vertebrae	. 269
Plate 4.—	Myology of the <i>Perch</i> . Exhibiting the external appearance of the nerves, when viewed in a lateral position	. 310
Plate 5.—	Exposing the whole depth of the lateral nerves	. 312
Plate 6.—	Details of the Myology of the <i>Perch</i> . Views of the neck, brain, and Great sympathetic nerve	. 325
Plate 7.—	Details of the Splanchnology and Angiology of the <i>Perch</i>	. 352
Plate 8.—	Details of the Splanchnology and Angiology of the <i>Perch</i>	. 352



1. *Hemidactylus marginatus* 2. *Uropeltis ceylanicus*.
3. *Dactylethra capensis*. 'The Thimble or Cape Frog.'



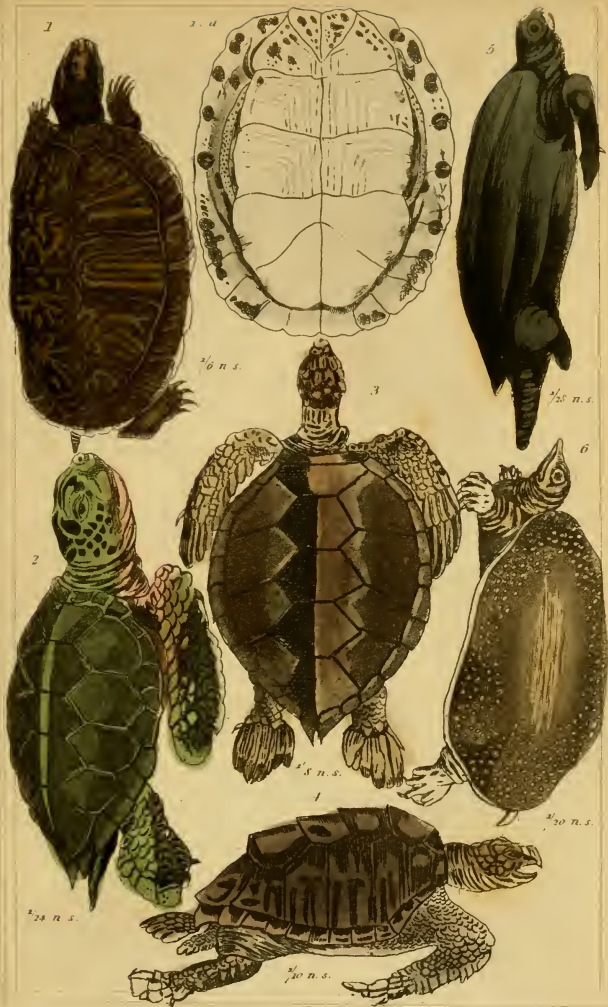


1. *Testudo depressa*. 2. Head of the *Testudo clausa*. 3. *Emys concinna*. Taken from a young Specimen.
 4. *Chelonia virgata*. 5. *Chelys fimbria*. The fringed Tortoise. 6. *Tryonix gangeticus*. The Tysr of the Ganges.
 7. *Tryonix oxyptiacus* Geoff. The soft shelled Tortoise of the Nile

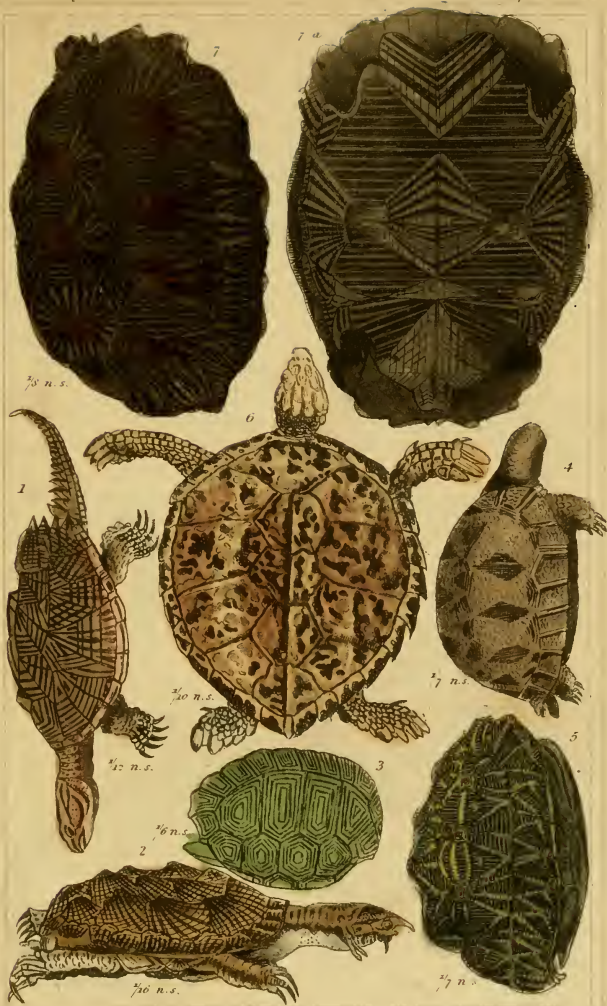


1 *Crocodilus bitorquatus*. (The Double crested Crocodile.) 2. *Alligator sclerops*. (The Spectacle Alligator)

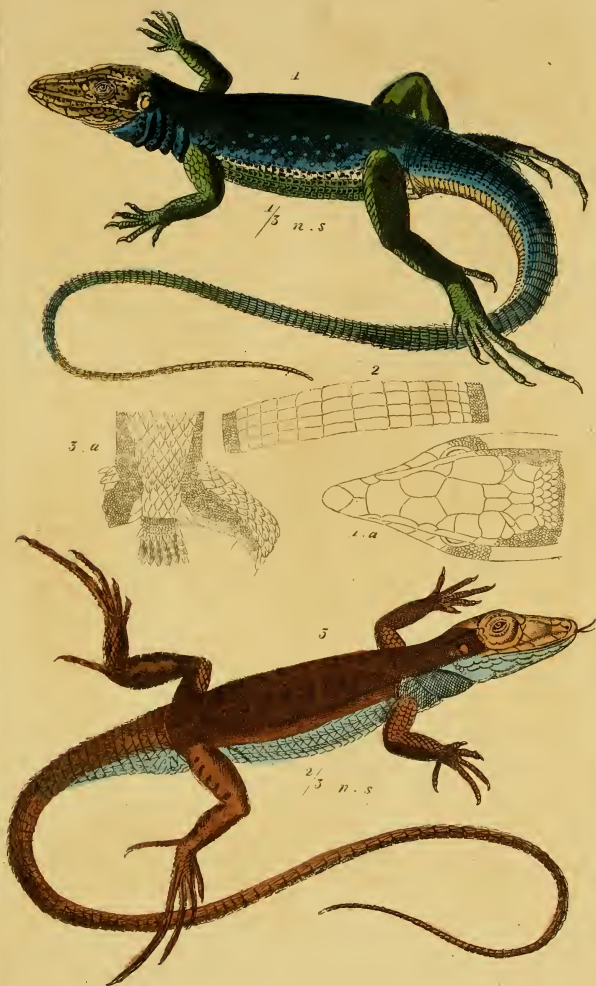
3. *Gavialis tenuirostris*



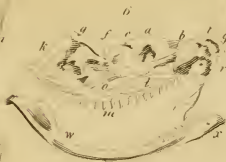
1. *Testudo serrata*. Daud. 2. *Testudo mydas*. Lin. / The common Turtle / 3 *Testudo cepediana*. Daud. 4 *Testudo caretta*. Lin. 5. *Testudo coriacea*. Linn. / The Coriaceous Turtle / 6 *Testudo ferox* Penn. / The Soft shelled Tortoise of America /



1. *Testudo fimbria*. Gmel. 2. *Testudo serpentina* Lin. / The Snapper / 3. *Testudo luteola*. Daud.
 4. *Testudo stellata*. Schapp. 5. *Testudo geometrica*. Lin. 6. *Testudo imbricata*. / The Hawk
 billed Tortoise / 7. *Testudo radiata*. Shaw.



- 1 the Ameiva (American Lizard)
 2 the scales of the belly of a Sauvegarde.
 3 Centropus calcaratus the Spurred Cecropix/



1. 2. 3. Head of the Great Python of Java.

4. 5. 6. Head of a Rattlesnake.



1



1/12 n. s.

2



2/5 n. s.

3



3/6 n. s.



1. *Monita crocodilinus* Merr. The Great Dragon of Lacépède 2. *Tupinambis alboularis* Daud. The White throated Monitor 3. *Lacerta magnificus* Seba. The Beautiful Monitor



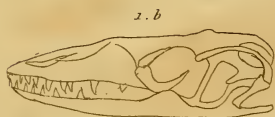
1. *Lacerta ocellata*, Baud. The Ocellated Lizard / 2. *Lacerta viridis*, Baud. The Green Lizard
3. *Lacerta stirpium*, Baud.



1 *Trapelus aegyptius* young specimen 2 *Trapelus aegyptius* Geoff. S^t Hil n. s.

3 *Lacerta colotes*, Lin

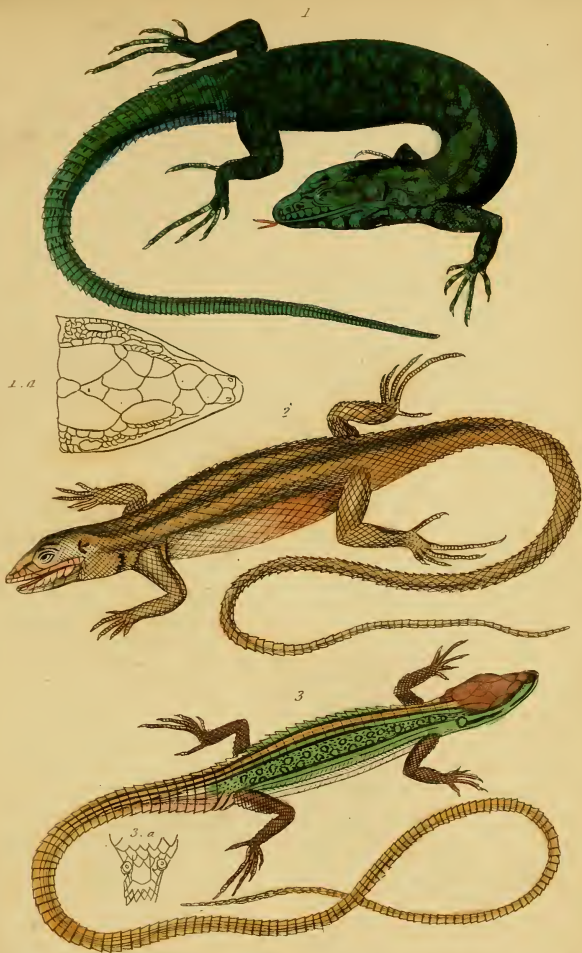




1. *Mamitor gemmatus*, in the collection of the French Museum.

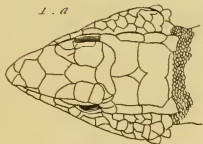
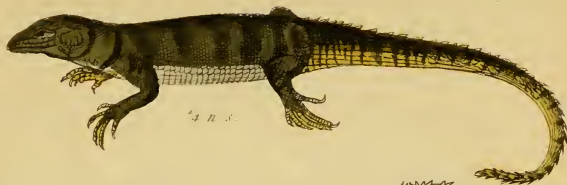
2. *Dracama bicarinata*.





1. *Lacerta agilis*. The Common European Lizard 2. *Algyra barbarica*. Cuv. *Lacerta Algyra*. Lin.

3. *Tachydromus ocellatus*. The Ocellated Swift Lizard



3



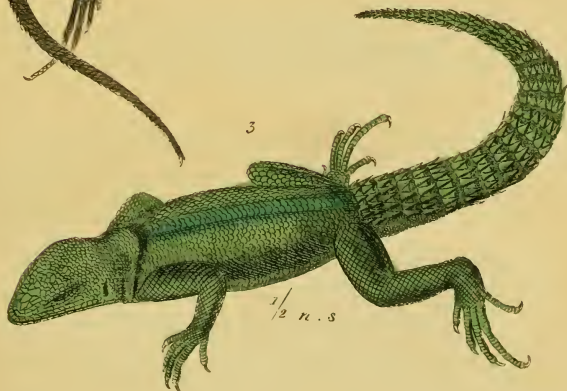
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1. *Cordylus microlepidotus*. 2. Head of the *Stellio vulgaris* (The Common Stellion) 3. *Doryphorus brevicaudatus*. (Short tailed Doryphorus of Daud.) 4. *Uromastix reticulatus*. (The reticulated Stellion of Bengal.)

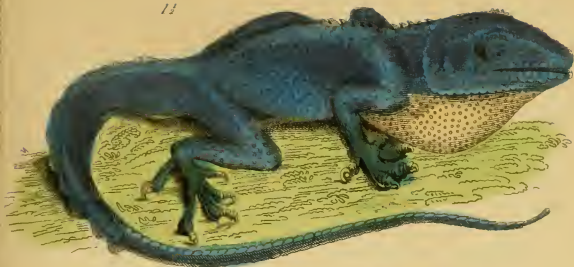


1. *Lacerta vittata*. Gml. (The White Dauded Gecko) 2. *Stellio fimbriatus*. Sch. (The Fringed Gecko) 3. *Stellio Gecko*. Sch. (The White spotted Gecko) 4. *Gecko larvis*. D. (The Smooth Gecko)

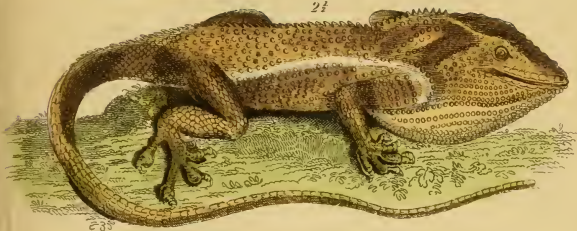


- 1 Anolis velifer the great crested Anolis
 2 Euphymotes tuberculata the tuberculated Euphymotes
 3 Oplurus torquatus the Black collared Grey Quekypaler

11



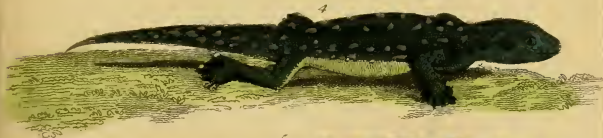
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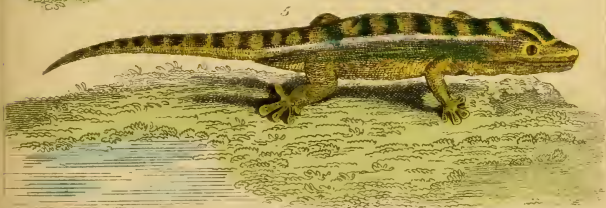
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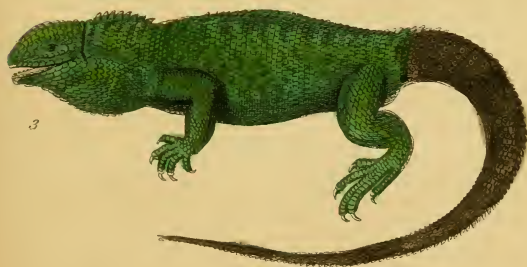
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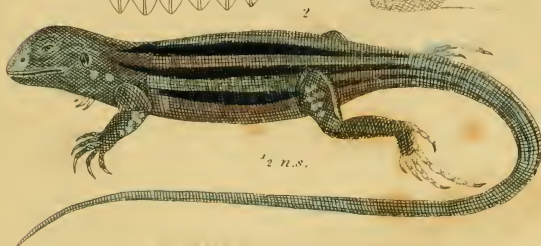
5



1 *Anolis velifer* (The Great Crested Anolis in other view see Pl. 14) 2 *Anolis equatorialis* (The Egyptian Anolis)
3 *Gecko munitz* (The nail less Gecko) 4 *Gecko ocellatus* (The Ocellated Gecko)
5 *Gecko cephalianus* (The Cepedian Gecko)



1 *Physignathus cocincinus* (The *Physignathus*) 2 *Sitana ponticeriana* The *Sitana*
Iguana cyathura The *Carolina* or *Long-tailed Iguana*



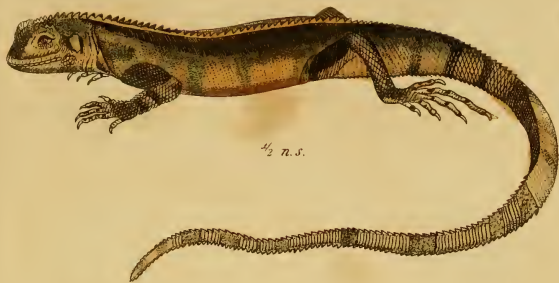
1. *Agama Jacksourensis*. The Bachelor in the collection of the French Museum. 2. *Leiolepis guttatus*. The striped Leiolepis. 3. *Calotes gutturosa*. The Crested Agama.





1. *Brachylophus fasciatus*. The Banded Iguana. 2. *Istiurus szechuensis*. Valenciennes. The *Istiurus* or *Lophura* of Szechu China in the collection of the French Museum.

1

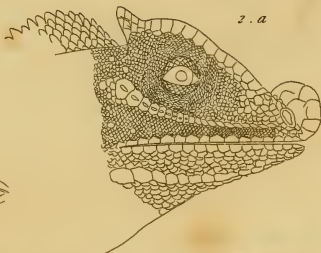


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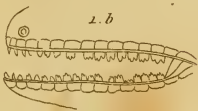
1. a



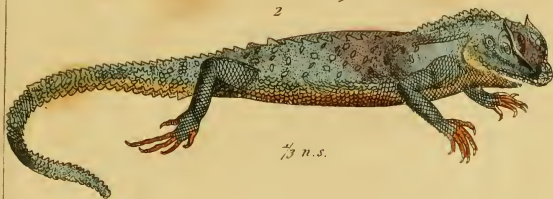
2. a



1. b



2



$\frac{1}{3}$ n.s.

1. *Ophryessa superciliosa*.

2. *Lyriocephalus margaritaceus*. *Mer.*





Anomalous Serpents.

1 2 3 Head of a *Crotalus* 4 5 6 Head of an *Amphisbæna*.

7 8 9 Head of an *Ophisaurus*.

London G. Henderson & J. B. Bailey



1. *Draco fimbriatus*. (The Dragon) 2. *Sitana ponticriana*. The Sitan



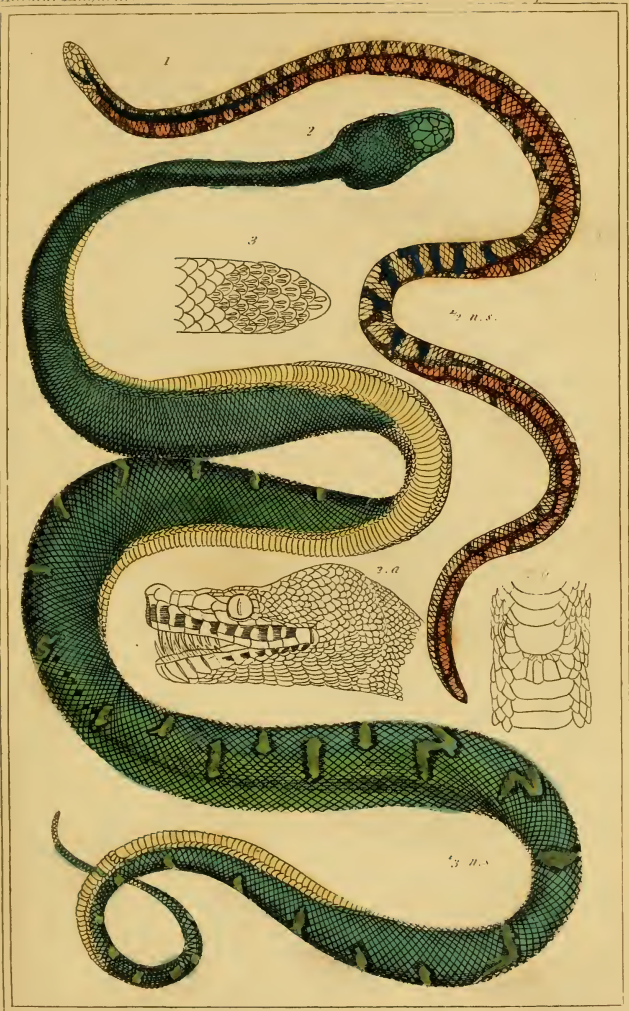
1. *Iguana nudicollis*. The Naked Iguana / 2. *Basiliscus*. *Lucerta basiliscus*. L. / The Basilisk /
3. *Polychrus narnivorus*. L. / The Marbled Lizard /



Hemidactylus tuberculatus. Daud. The spotted Hemidactylus.



1 *Phyllurus platurus*. White. 2 Foot of the *Platydaetylus minoris*. 3 Foot of the *Hemidaetylus trihedrus*. 4 Foot of the *Threnidaetylus*. 5 Foot of the *Ptyodaetylus lobatus*. 6 Foot of the *Spheroideaetylus*. 7 Foot of the *Stenodaetylus guttatus*.

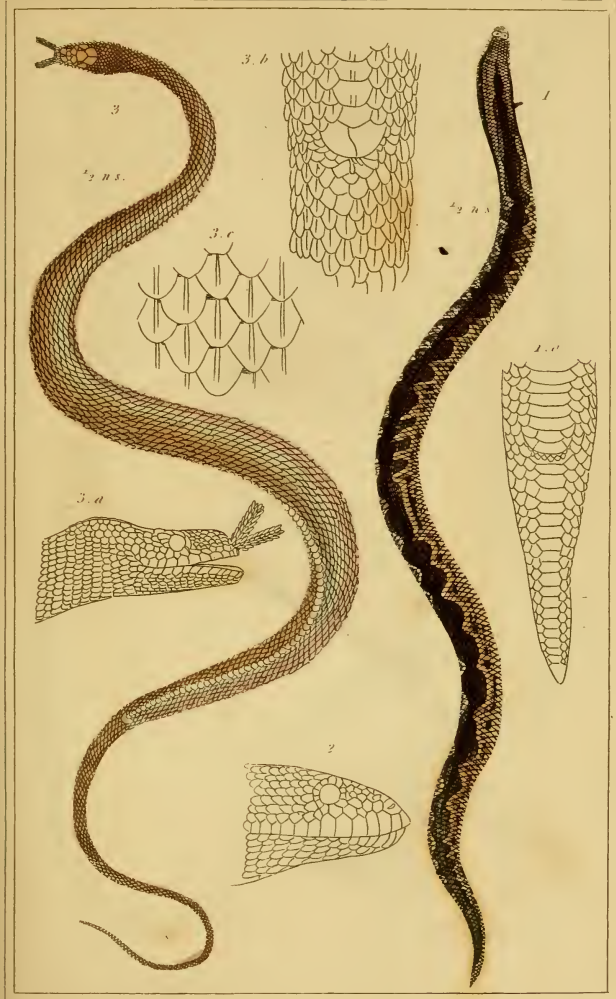


1. *Tortrix maculata*, L. (The Variegated Tortrix of America) 2. *Boa canina*, L. (The Canine Boa)
3. Tail of the *Tropicotis ceylanicus*, (Guv.) The Tropicotis of Ceylon

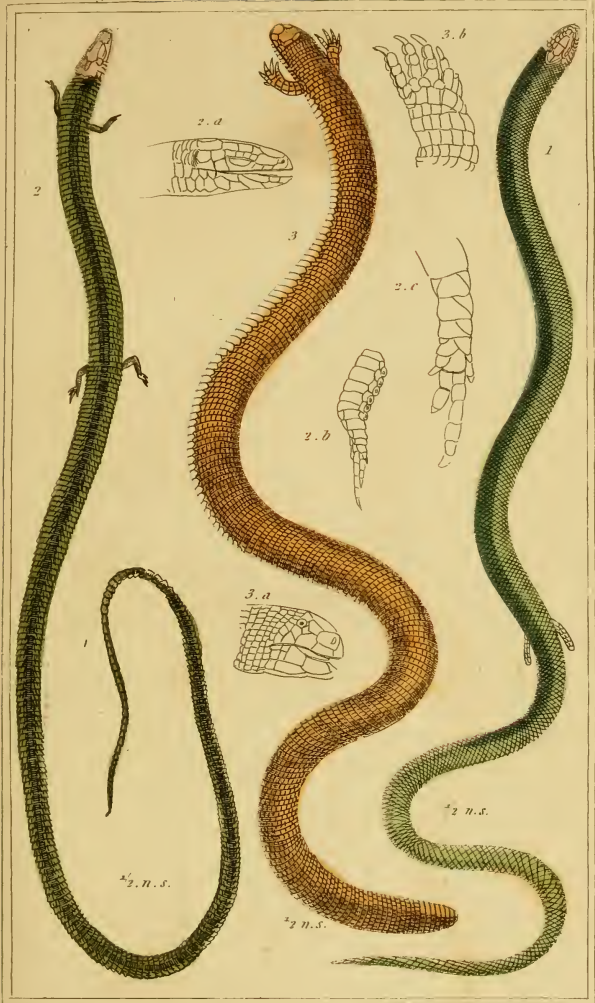




1. *Chamaeleo africanus*. / The Common Chameleon / 2. *Scincus caelestinus*. Valenc. / The blue Scinc / in the collection of the French Museum. 3. *Seps striata*. / The striped Seps /

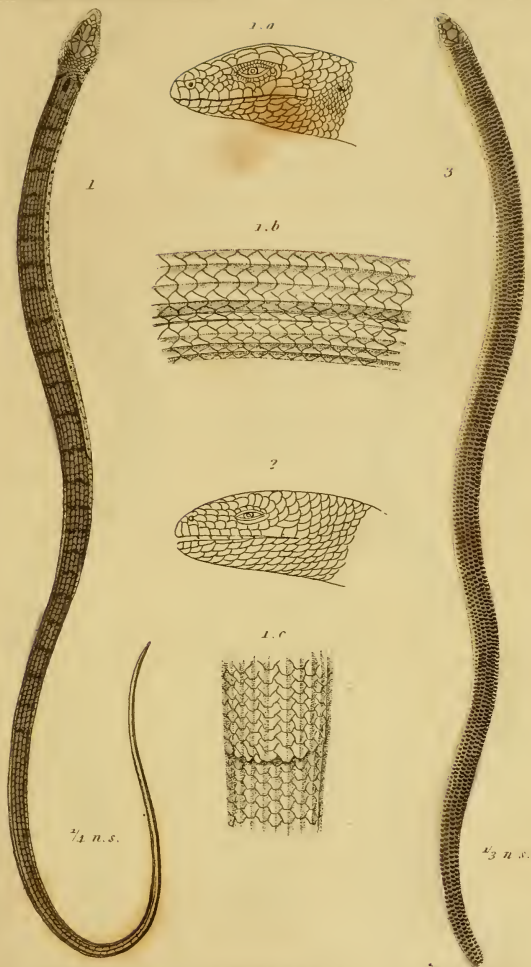


1 *Erix bengalensis*, Merr. The Elarey Serpent of Bengal 2 Head of the *Seytale coronata*, Merr. The Crowned *Seytale* or False Boa 3 *Euputon tentaculatus*, Loeppede. The Tentaculated Serpent



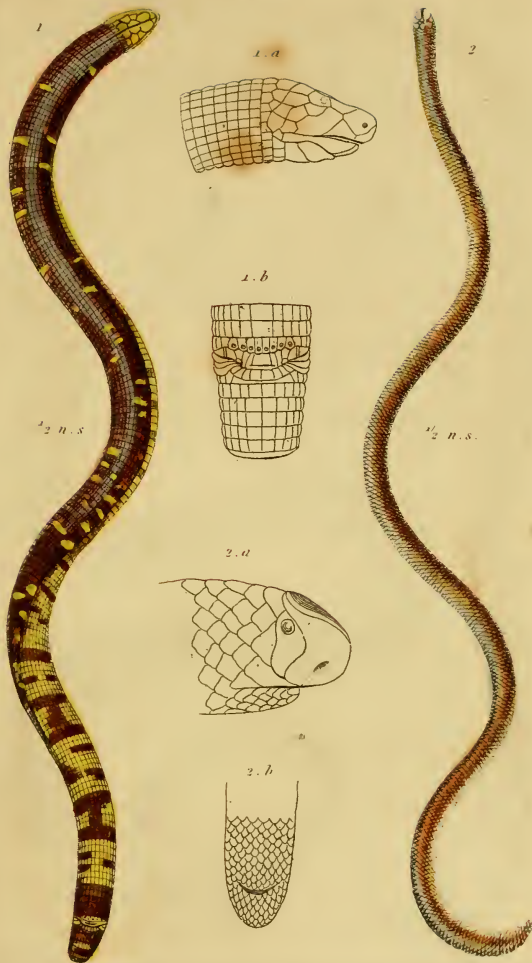
1. *Bipes lepidopodus*. Lacép. (The two footed *Lepidopodus*) 2. *Chalcis tetradactyla*. Lacép.

3. *Chirotes canaliculatus*. Lacép.



1. *Pseudopus Durvillii*. [The false foot of Durville] 2. Head of the *Anguis fragilis* Lin. [The common Blind worm of Europe] 3. *Acontias meleagris* Lin. [The darting serpent of the Cape of Good Hope]



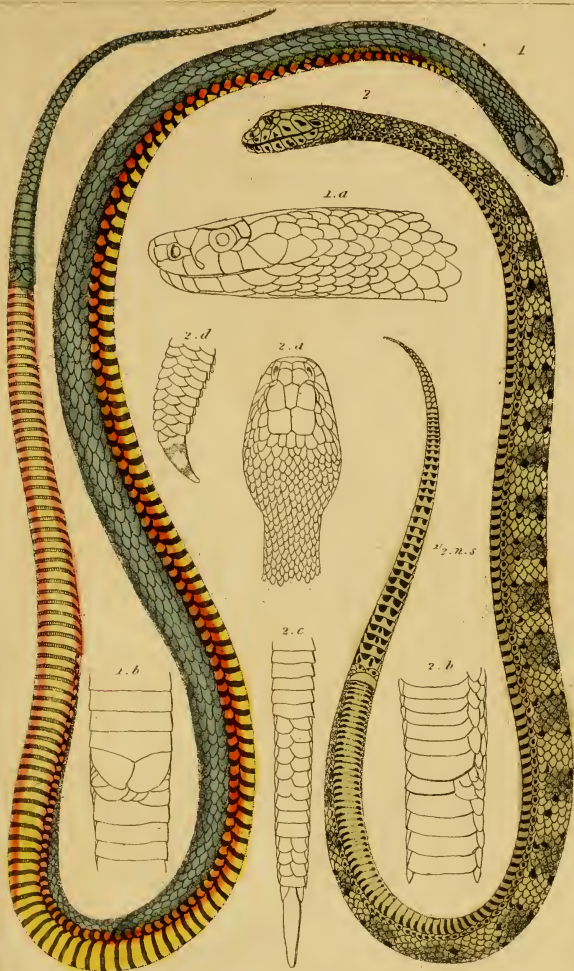


1. *Amphibaneus fuliginosa* Lin. 'The Double Walker'
 2. *Typhlops canereus* Schn. 'The Blind Serpent of Schneider'

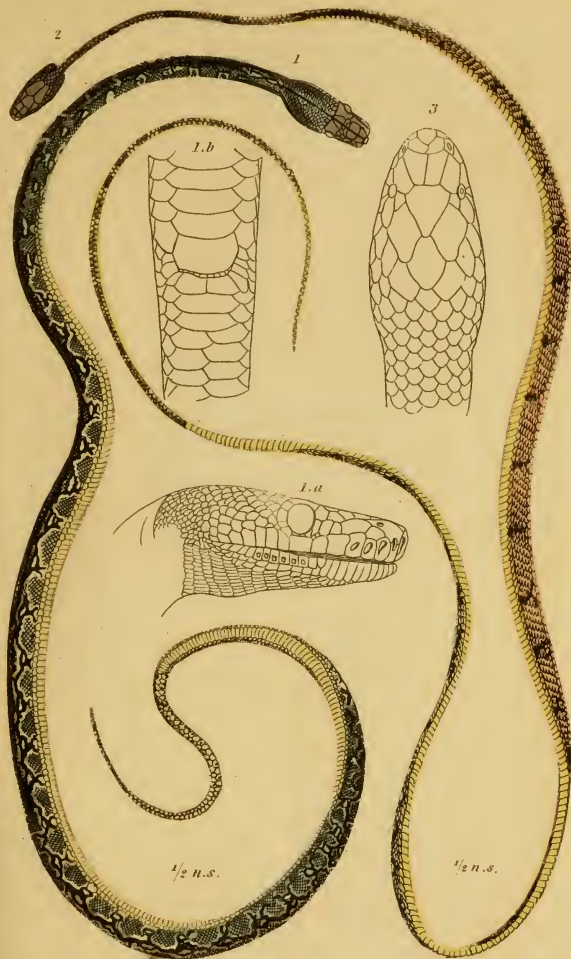




1. *Vipera berus*, Lin. The common Viper 2. *Crotalus horridus*, Lin. The Diamond Rattle snake



1. *Trimeresurus tortor*. Less. (The winding *Trimeresurus*)
 2. *Acanthophis cerastinus*. Daud. (The Venomous *Acanthophis*)



1/2 n.s.

1/2 n.s.

1. *Python Schneideri*, Merrem (The Great Python of Schneider) 2. *Dipsos cyanodentatus* (The fatal thirst causing Serpent of India) 3. Head of the *Xenopectis concolor*, Reinhardt (The many coloured Xenopectis)



1 Bungarus annularis. Boul. 2 Anguis platyrus. Lin.



1. *Hydrophis elaris* Russell. 2. *Cœcilia lombricoides* Daud.

3. *Cœcilia alliventris* Daud.



1. *Hydrophis fasciatus*, Russel. / The Bengal Water-Serpent

2. *Caecilia bivittata*. The Blind-Serpent
or the Caecilia of Ceylon

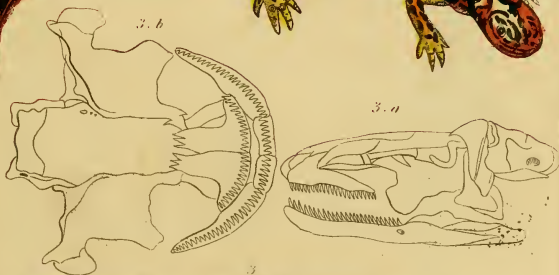


1. *Rana palustris*, Leconte. 2. *Ceratophrys granosa* (The American Horned Frog)
3. *Hyla bicolor*, Daud. (The South American two coloured Tree Frog)



1. *Bufo vulgaris*. (The Common Toad) 2. *Oxyrhynchus bicolor*. Val. (The Angular Mole Toad) in the collection of the French Museum. 3. *Engystoma marmoratum*. (The Marbled Toad)



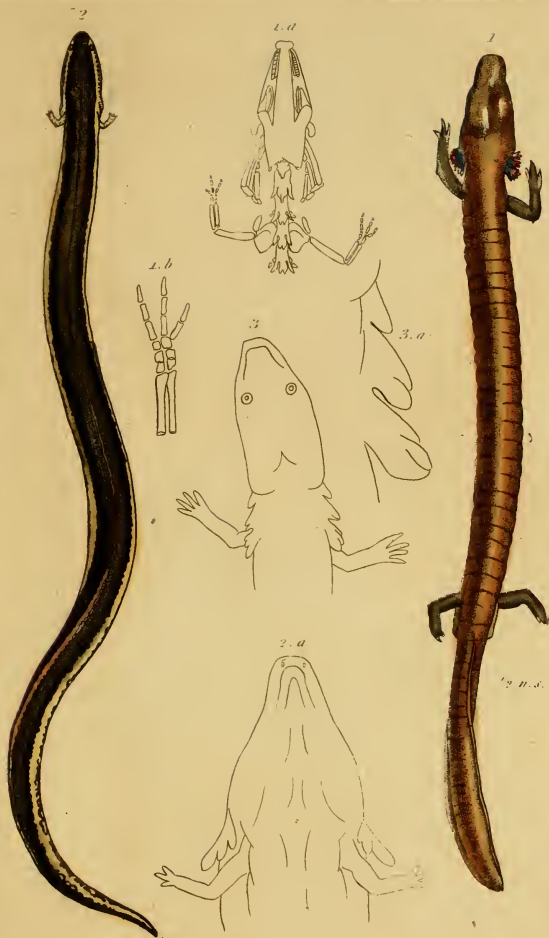


1 *Salamandra atra*, Linnæus. The Black Salamander. 2 *Triton vittatus*, Valenciennes. The Triton. in the collection of the French. 3 *Monopoma gigantea*, Barton. The great Salamander of North America.

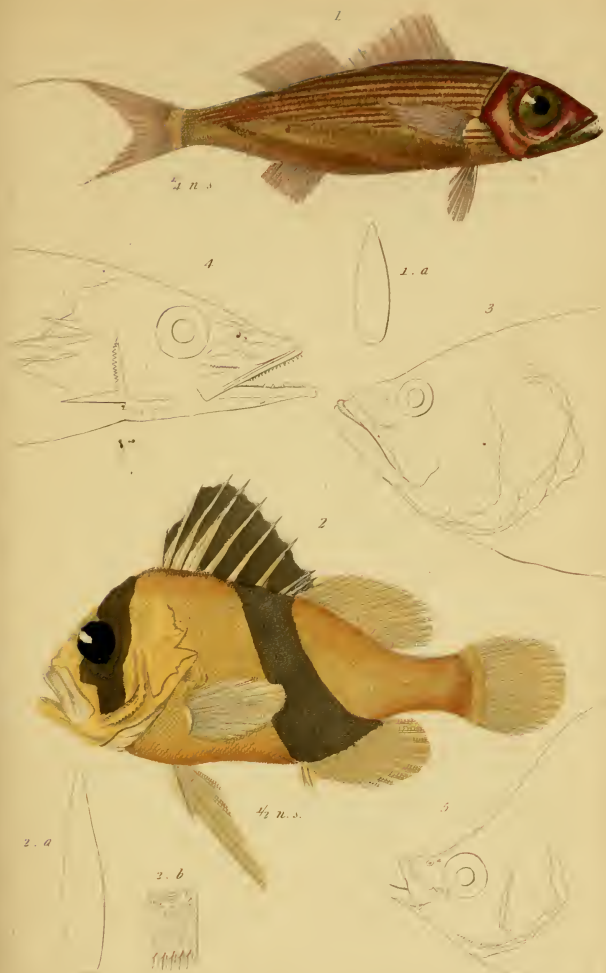


1. *Amphiuma means*. Gard. & Harlensis of the French Museum. (The two-toed Amphiuma) 2. *Amphiuma trydactylum*. (The three-toed Amphiuma) 3. *Axolotl pisciformis*. Shaw. (The Fish Serpent of Mexico) 4. *Menobranchius lateralis*. Harl.

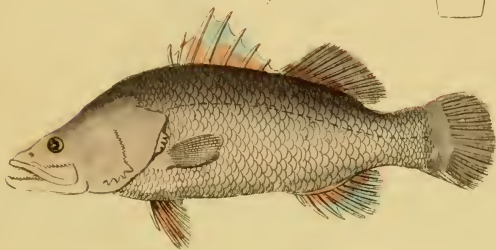




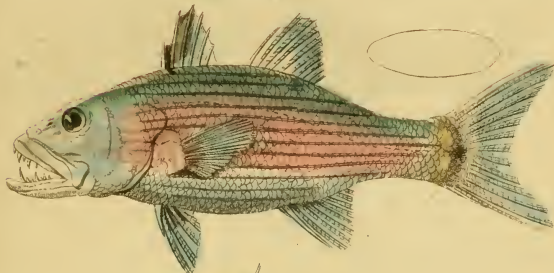
1 *Protens anguinus*. Linn. (The Blind Proteus) 2. *Siren striata-lecontei*. (The Striped Siren)
3. *Siren intermedia-lecontei*. (The Intermediate Siren of Leconte)



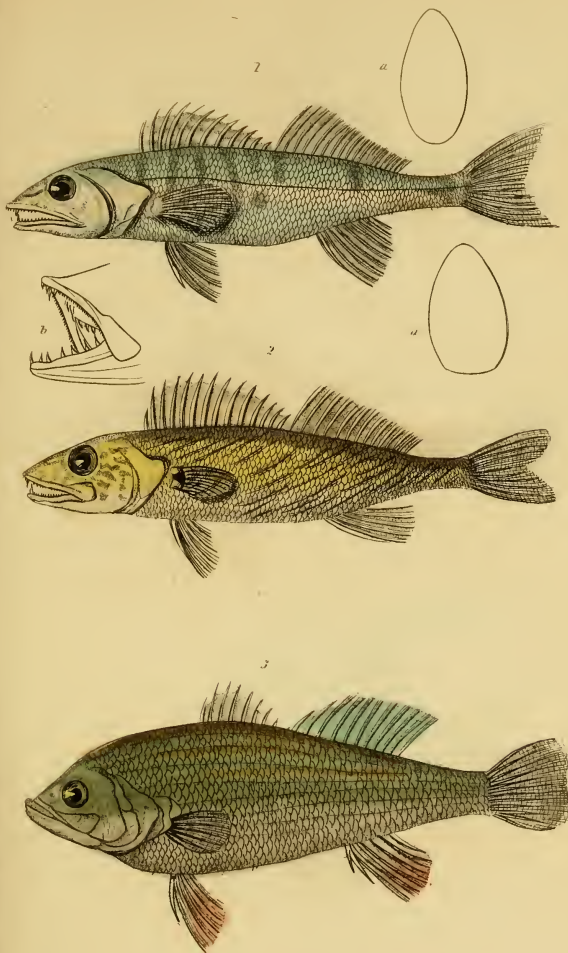
1 *Etelis carbunculus* (The Etelis) 2 *Diploprion bifasciatum* (The bifasciate Diploprion)
 3 Head of the *Huro nigricans* (The Black Basse) 4 Head of the *Niphon spinosus* (The Spiny Niphon)
 5 Head of the *Enoplosus armatus* (The Enoplosus or armed Perch of Japan)



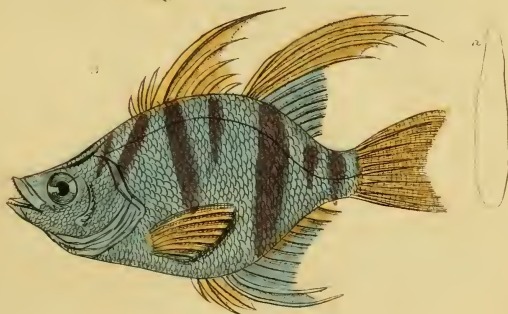
1 *Perca acuta* Cur et Val 2 *P. lates nobilis* Cur et Val 3 *Centropomus undecimalis* n.
Eleven-Spined Centropomus



1. *Apogon trimaculatus* n. The Mediterranean Apogon 2. *Cheilodipterus arabicus* n. Arabian Cheilodipterus 3. *Ambassis commersonii* n. Commerson's Ambassis



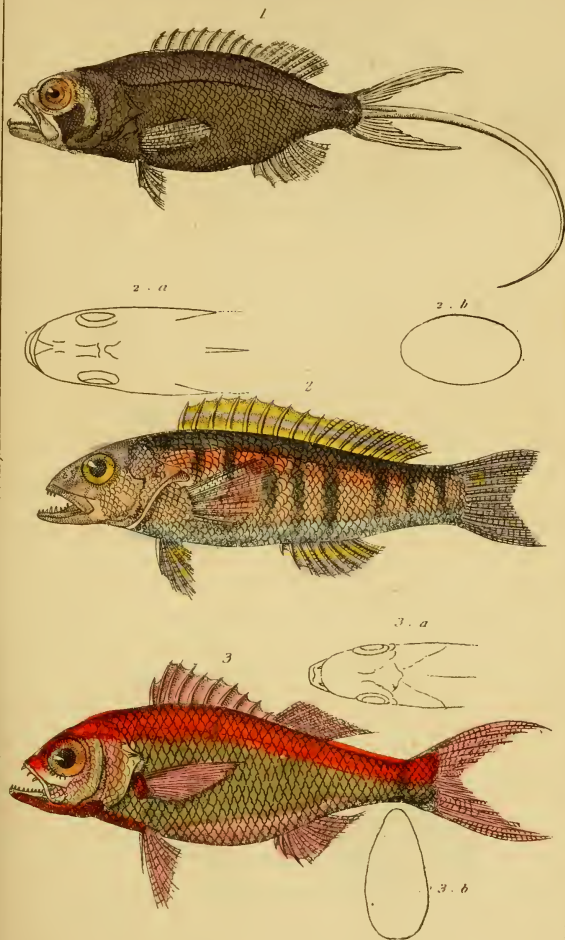
1. *P. Lucioperca sandra*, n. The Common Pike Perch. 2. *P. Lucioperca american* The American Perch
 3. *Huro nigricans*, n. The Black Bass of the Huron.



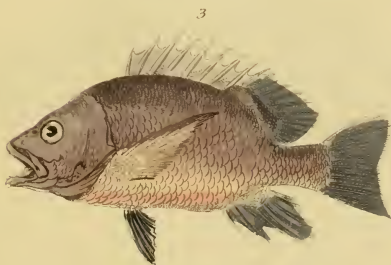
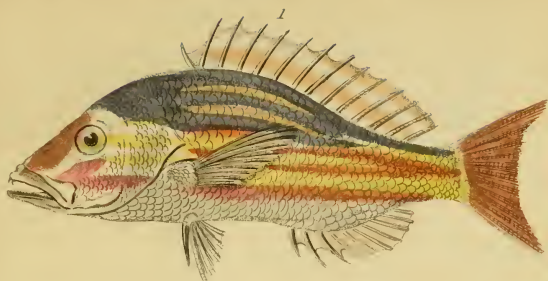
1. *Lucioperca Volgensis pallasi* The Russian Perch. 2. *Niphon spinosus* The Spined Niphon.
3. *Enoplosus armatus, n.* The Armed Enoplosus



1. *Serranus anthrax*. / The spined Serranus / 2. *Serranus cabrilla*, Nob. / The common Serranus /
3. *Serranus gigas*, Nob. / The Merou of the Mediterranean /



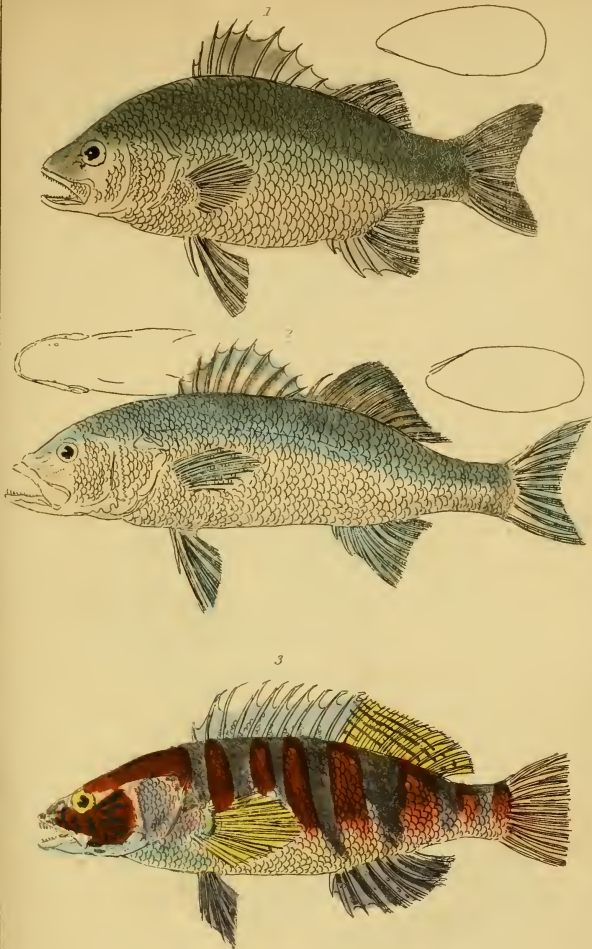
1. *Serranus phaeon*. Rob. / Long tailed *Serranus* / 2. *Serranus fasciatus*. Rob. / The Banded *Serranus*. / 3. *Serranus ocellatus*. Rob. / The large eyed *Serranus* /



1. *Mesoprium unnotatus*. (One spotted Mesoprium) 2. *Mesoprium chrysurus*. Nob. (Golden-tailed Mesoprium)

3. *Diaope rivulata*. Nob. (The Banded Diaope)

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1 P Labax mucronatus n. 2 P Labax lupus n. 3. Serranus scriba n.



1 *Sternoptyx diaphana* 2 *Sternoptyx Olfersii*.

3 *Gymnarchus senegalensis*.



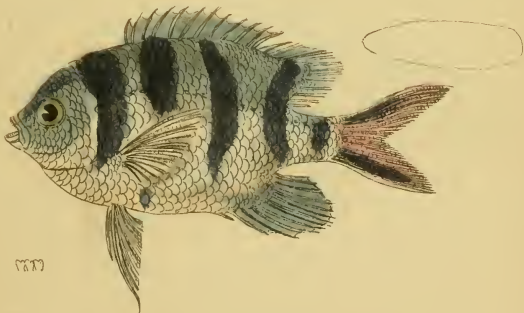
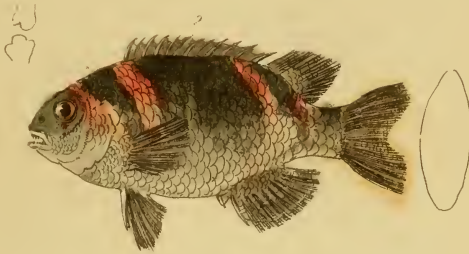
1. *Plectropoma leopardinus* n. Leopard Spotted *Plectropoma*. 2. *Plectropoma puella* n. Beautiful *Plectropoma*. 3. *Serranus altivelis* Large Finned *Serranus*.)



1. *Pentaceros capensis*. Nob. 2. *Grystes salmoides*. Nob. *The Salmon formed Growler*.
 3. *Gaidropristes nigricans*. Nob. *American Black Bate*.

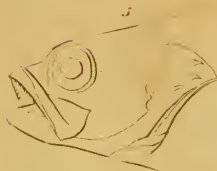
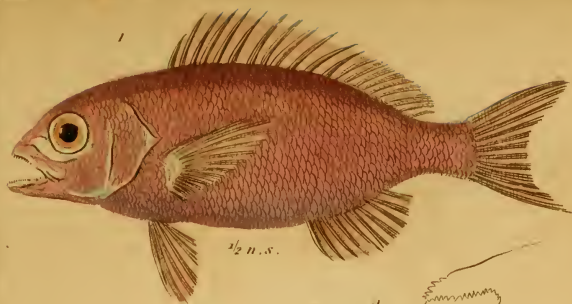


1. *Perca sciato-granulata*. (The Granulated Perch) 2. *Grammistes orientalis*. (The Oriental Grammist)
 3. *Aspro vulgaris*. (The Common Aspro) 4. Head of the *Labrax vulgaris*. (The Basse Perch) 5. Head of the
Lates nobilis. (The American Pike)

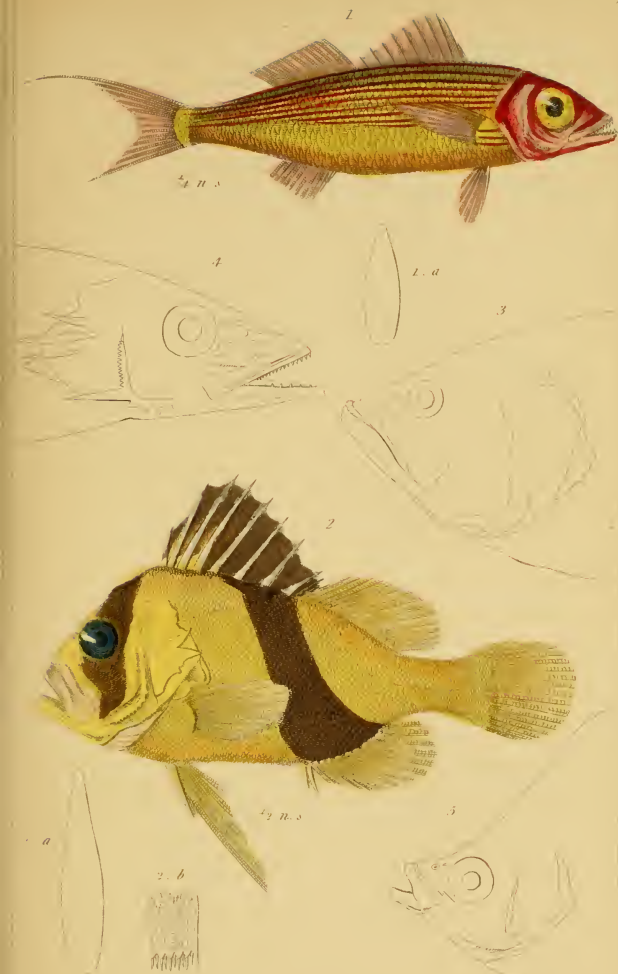


1 *Heliasces insolatus* n. 2. *Pomacentrus fasciatus* n. 3. *Glyphisodon celestinus* n.

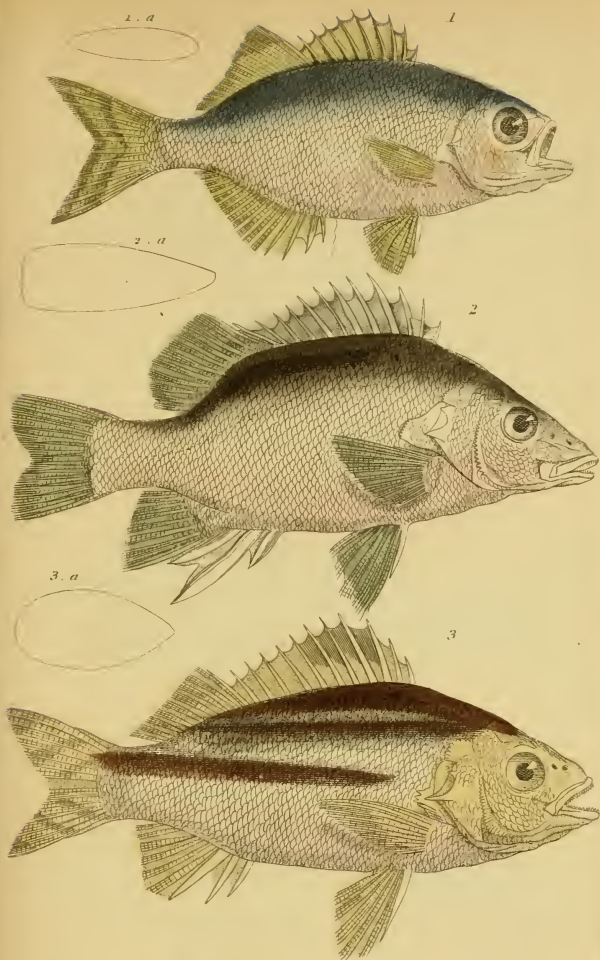




1. *Centropomus auratus*, The Golden Red Perch; 2. *Geistes macquariensis*, The Growler of New South Wales; 3. Head of the *Acerina vulgaris* (The Common Grenille); 4. Head of the *Polyprion cornutum*, The Mediterranean Cornier; 5. Head of the *Rypticus arenatus*, The Soup Wort; 6. Fin of the *Cirrhites fasciatus*.



1. *Etelis carbunculus*. The *Etelis*. 2. *Diploprion bifasciatum*. The *bifasciate Diploprion*.
 3. Head of the *Mura nigricans*. The *Black Bass*. 4. Head of the *Niphon spinosus*. The *Spiny Niphon*.
 5. Head of the *Enoplosus armatus*. The *Enoplosus* or *armed Perch* of Japan.



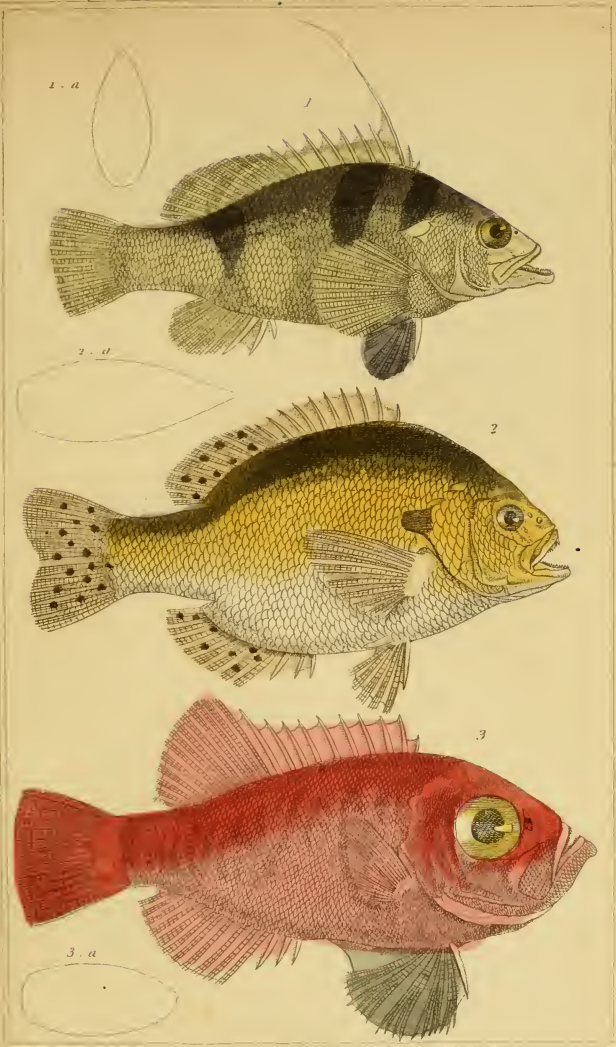
1. *Dules marginatus*, Seb. The Bordered Duple. 2. *Datnia argentea*.

3. *Therapon Theraps*.



1. *Apogon niger* Mulloruni. The Red Surnmullet. 2. *Pomatomus telescopium*. The Telescope Pomatomus.
3. *Lucioperca sandra*. The Common Sandre. 4. Head of the *Cheilodipterus arabicus*. Tabah of the
Arabs. 5. Head of the *Ambassis commersonii*. The Hugol.





1 *Dule's auriga*, Nob. 2 *Pomotis vulgaris*, Nob. The common *Pomotis* or American Pond Perch
3 *Priacanthus japonicus*, Nob. The *Priacanth* of Japan.



2 n.s.

5

3

4

2



26 n.s.

1 *Serranus hexagonatus*. Cuv. s. g. Merou. The Hexagon Sea Perch. 2. *Mesoprion aya*. Cuv. The Garraha or Red Mesoprion. 3. Head of the *Plectropomus puella*. Cuv. The White Lady of Martinique. 4. Head of the *Serranus anthus*. s. g. Barbier. Cuv. The Mediterranean Barber. 5. Head of the *Diaope rivulata*. Cuv. The Cornmandel Orati.



1. *Centrarchus sparoides*. 2. *Dula's rupestris*. (The Daule) 3. Head of the *Pomotis vulgaris* (The American Pond Perch) 4. Head of the *Priacanthus japonicus*. The *Priacanthus* of Japan

1



2



3



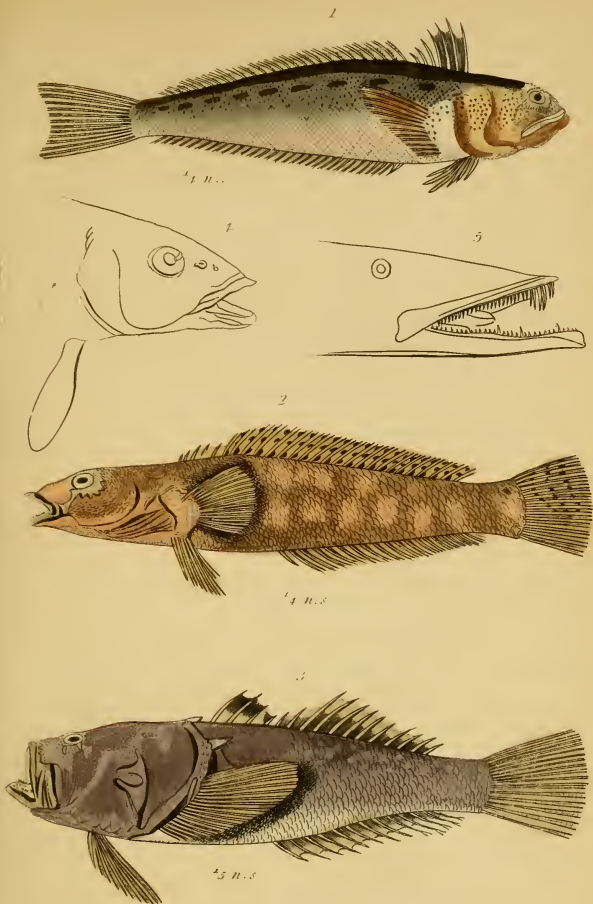
1. *Pelor filamentosum*, n. 2. *Platycephalus asper*. 3. *Dactylopterus orientalis*, nab.



1. *Therapon puta.* (The *Therapon*) 2. *Petates quadrilineatus.* (The four lined *Petates*)
 3. *Trichodon Stelleri.* (The *Trichodon*) 4. Head of the *Helotes sexlineatus.* (The six lined *Helotes*)

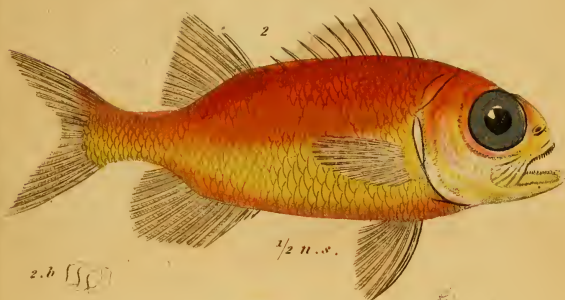
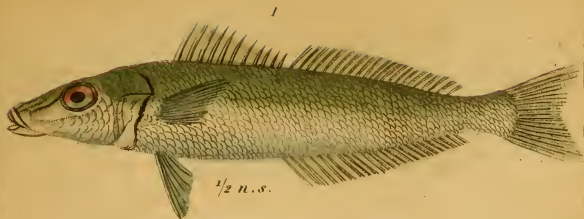


1 *Helotes sex lineatus* nob. 2 *Myripristis japonicus* n. 3. *Holocentrum hastatum* n.



1. *Trachinus araneus* Risso. 2. *Percis cancellata*. 3. *Uranoscopus guttatus*.

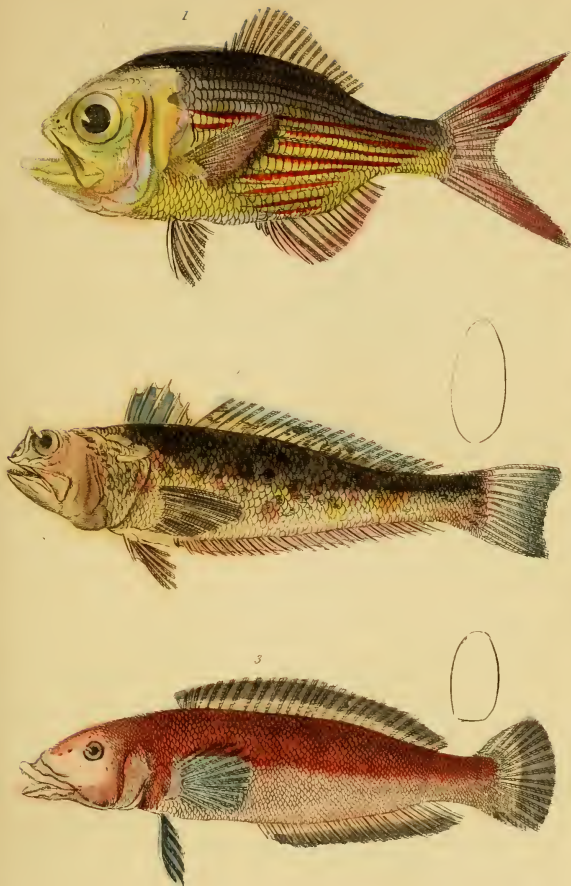
4. Head of the *Pinguipes Brasilianus*. 5. Head of the *Percophis Brasilianus*.



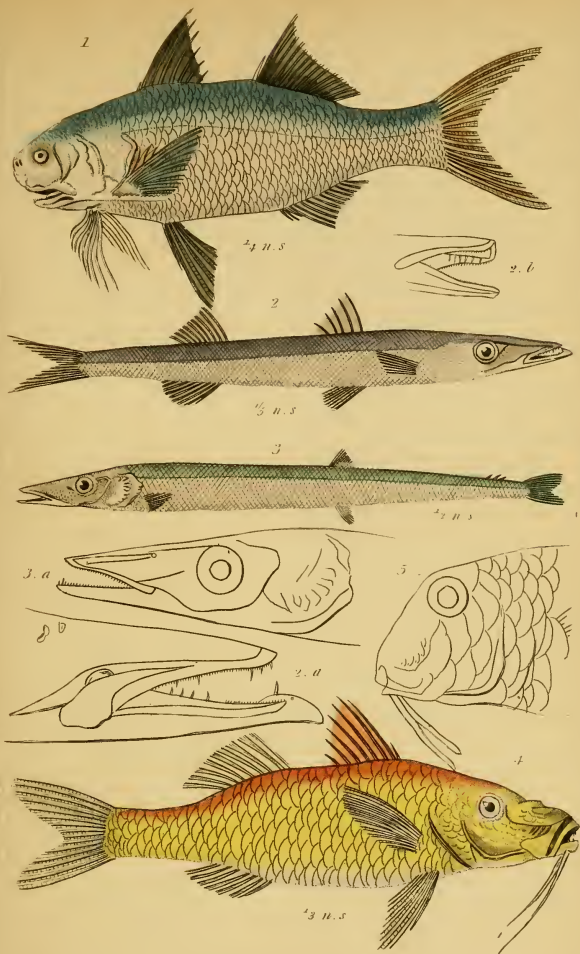
1. *Sillago cythura*. 2. *Meripristes seychellensis*.

3. *Beryx decadactylus*.

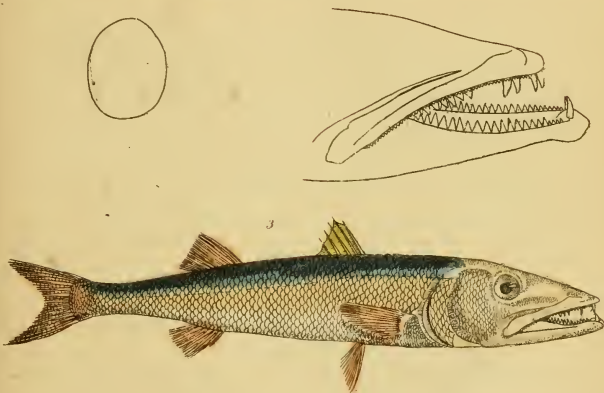
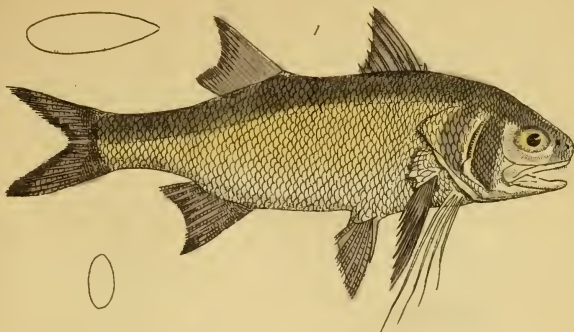




1. *Beryx lineatus* n. 2. *Trachinus radiatus* n. 3. *Pinguipes brasilianus* n.



1. *Polynemus emmelaetulus*. 2. *Sphyræna vulgaris*. 3. *Paralepis coregonoides* Risso.
4. *Upeneus latus*. 5. Head of the *Mullus barbatus*.



1. *Polynemus quadrifilis* The four-filamented Paradise Fish 2. *Paralepis sphaeroides* Risso.
3. *Sphyræus barreanda* Cuv. et Val.

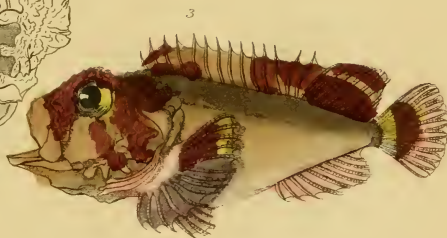
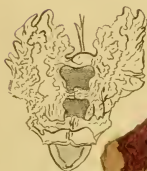




Head of a Cod — *Gadus morrhua*. Lin.

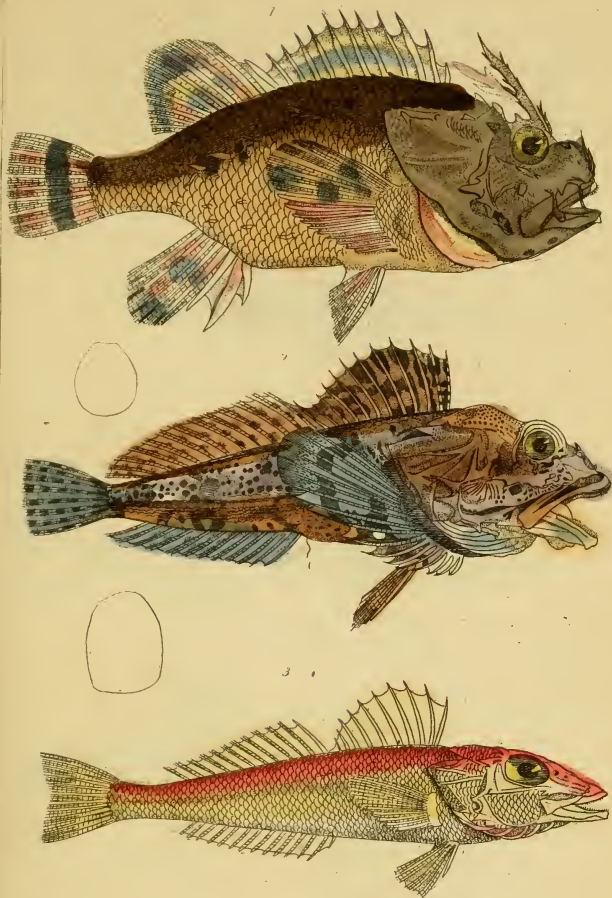


1 *Sillago analis* 2 *Mullus barbatus* Linn 3 *Upeneus* *Thalassoma* A



1 *Agiopus verrucosus*. n. 2. *Pelor japonicum*. n. 3. *Synanceia cresta*. nob.



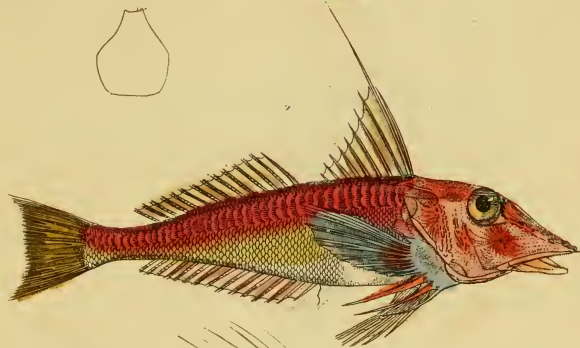


1 *Scorpana ataudicornis*, n. 2 *Bembras papuanus*, n. 3, *Hemilepidotus filosa* n.



1 *Trigla pavo*. Val. & Giv. 2. *Cephalocanthus spinicollis*. Giv. 3. *Cottus porosus*. Giv.

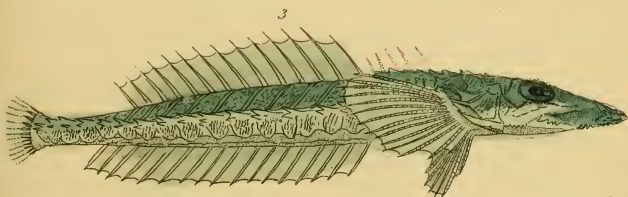
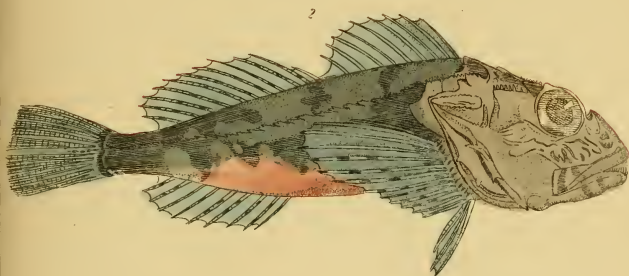
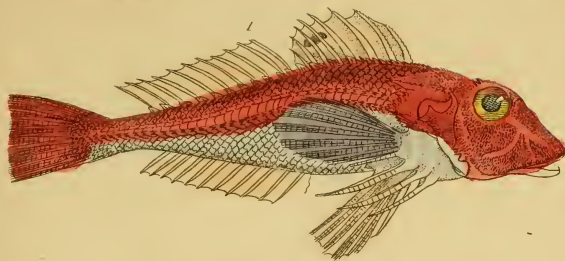
4 *Cottus octodecim spinosus*. Giv.



1. *Prionotus tribulus* nob. 2. *Tegla lucerna* Briss. 3. *Peristedion scaphrodon* Latr.



1. *Aspidiphorus segaliensis*, Gv. 2. Head of the *Aspidiphorus quadricornis*, Gv. 3. *Hemitripterus americanus*, Gv. 4. *Hemilepidotus Tilesii*, Gv. 5. Head of the *Platycephalus asper*, Gv.



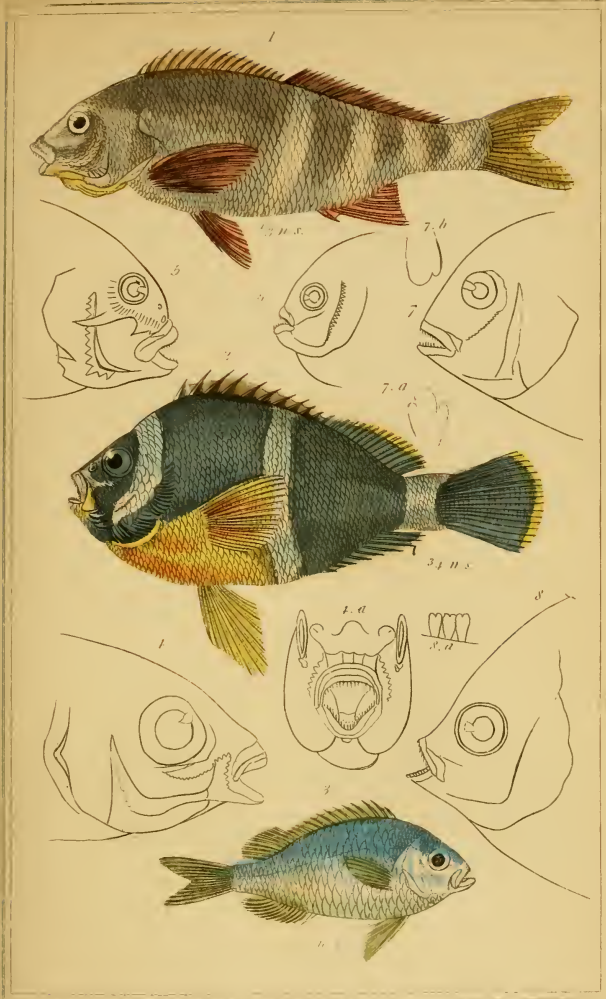
1. *Trigla papilio nob.* The Butterfly Gurnard. 2. *Cottus poecilus Faght.* The Bull-Head. 3. *Oplichthys Lungsderfi*



1. *Scæna pama* n. 2. *Otolithus ruber* n. 3. *Otolithus tarce* n.



1. *Platycephalus grandis* (n. s.) 2. *Scorpana m. gallica* (n. s.) 3. *Temnanotus triacanthus* (n. s.)



1. *Cheilodactylus Antonii*. 2. *Amphiprion chrysotaenia*. 3. *Heliasys frenatus*. 4. Head of the *Scolopsus lycogenis*. 5. Head of the *Premnas biaculeatus*. 6. Head of the *Baetulus marginatus*. 7. Head of the *Pomacentrus fasciatus*. 8. Head of the *Glyphisodon stratus*.



1. *Sebastes norvegicus*, n. 2. *Blepsias filamentosus*, n. 3. *Pterois volitans*, n.





1. *Otolithus quatuorcupa* n. 2. *Ancyrodon parvipinnis* n. 3. *Corvina semiluctuosa* n.

1



2



3



1 *Sebastes variabilis*, Cuv. 2. *Blepsias trilobus*, Cuv.

3. *Apistes marmoratus*, Cuv.



1. *Pagellus centrodontus*. 2. *Boops salpa*. 3. Head & teeth of the *Sargus Rondeletii*. The *Sargus* of Rondelet. 4. Head & Dentition of the *Chrysopheys aurata*. The Golden Eye brow. 5. Head & Dentition of the *Pagellus erythrinus*. (The Pagel.)

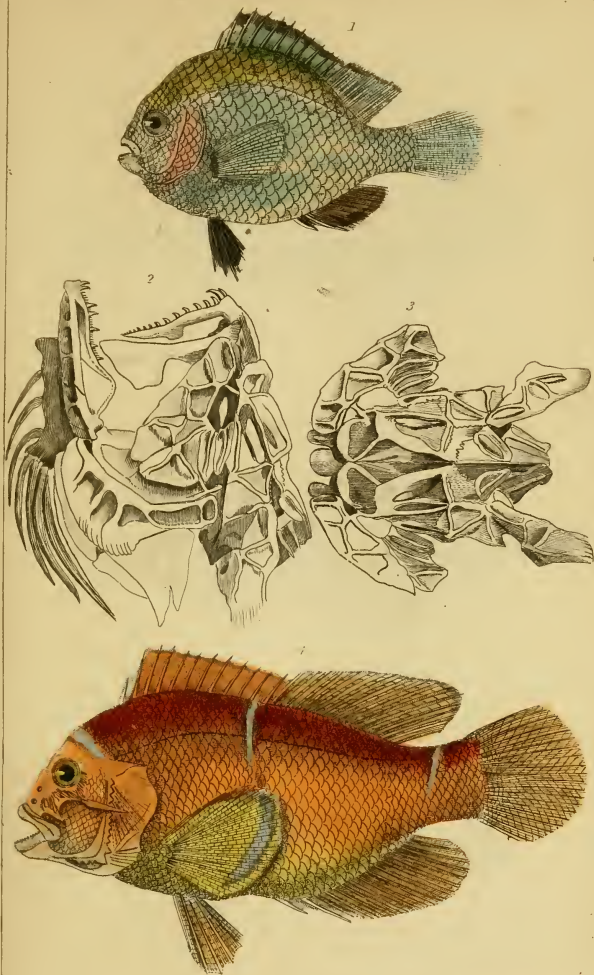


1. *Eques* *maculatus* L. 2. *Perch* *maculatus* L. 3. *ELEGINUS maculatus* L.



1. *Haemulon quatrifasciatum* n. 2 *Haemulon heterodon* n. 3. *Pristipoma bilineatum* n.





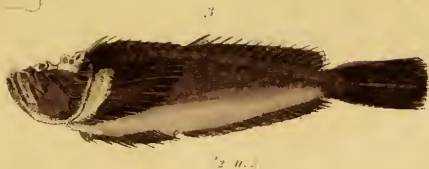
1. *Premnas semicinctus*. 2 & 3 *The Brain of the Sciaenops ocellatus*. 4. *Dascyllus marginatus* Ehw.



1. d



2. b



1 *Agriopus peruvianus*. tin. 2 *Pelor maculatum*. tin

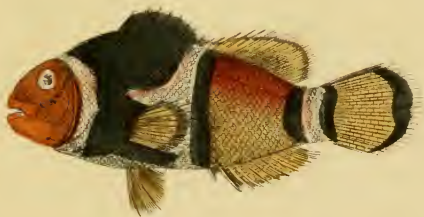
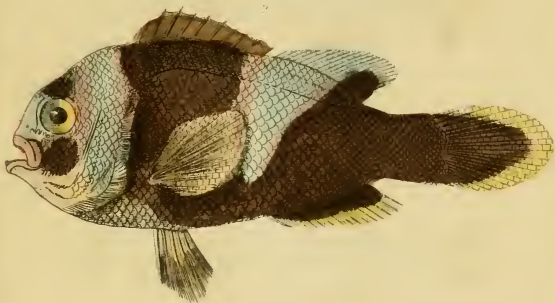
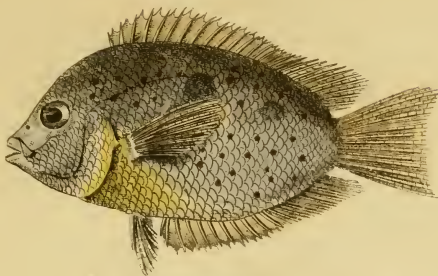
3. *Synamia elongata*. tin.



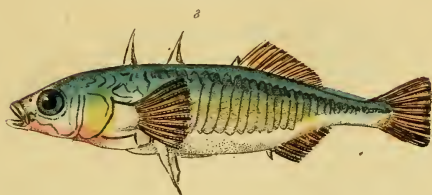
1 *Lobotes* *sp.* 2 *Diagramma* *sp.* 3 *Diagramma* *sp.*



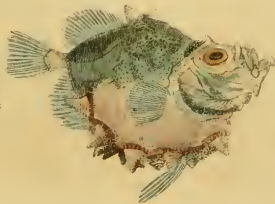
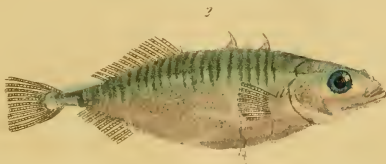
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1 *Glyphisodon kermadecensis* n. 2. *Amphiprion latidorsus* n. 3. *Amphiprion tumidatus* n.



1 *Gasterosteus trachurus*. Cuv. et Val. 2. *Gasterosteus gymnae*. Cuv. et Val. 3 *Gasterosteus aculeatus*. Cuv. et Val. 4 *Gasterosteus leucurus*. Cuv. et Val.

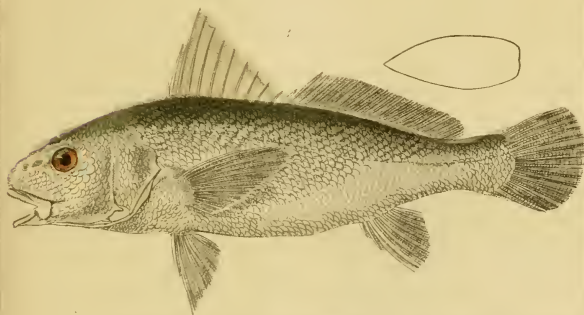


1. *Monocentris Japonica*, tiv. 2. *Gasterosteus brachycentrus*, tiv.

3. *Oreosoma coniferum*, tiv.



1. *Larimus breviceps*. Nob. / *The Larime* / 2. *Lepipterus Francisci*. Nob. / *The Lepiptere of the Island of St. Francis* / 3. *Corvina ocellata*. Nob. / *The Spotted Corvina* / 4. Anatomical details of the Brain of the *Anabas serinal*. 5. Anatomical details of the Brain of the *Ophicephale*. London: G. Henderson. 2. Old Bailey

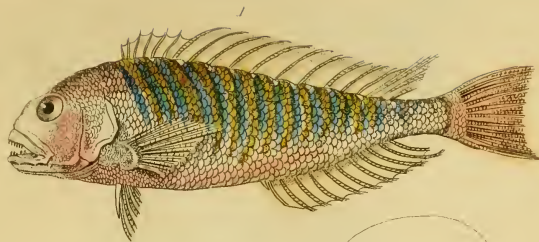


1 *Pogonias cromis*. The Banded Pompano. 2. *Umbrina cirrosa*. 3. *Micropogonias undulatus*.



1 *Mena vomarina* Nob. 2 *Boops salpa* Nob. 3 *Aphareus carulescens* Nob. 4 A fragment of the internasillary jaw of a *Daurades* with the molars detached. 5 The superior internasillary jaw of a *Sargus*. a. The incisors. b. The fern of an incisor tooth. c. The molars.





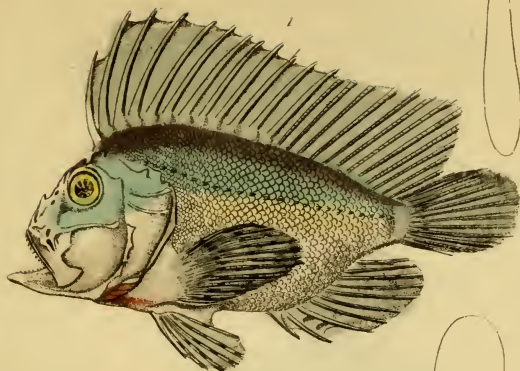
1. *Lutulus dolabratus* n. 2. *Chelodactylus zebatus* n. 3. *Macquaria australasica* n.



1 *Apsilus* *...* 2, *Chaetodon strigatus* *...* 3, *Chaetodon reticulatus*.

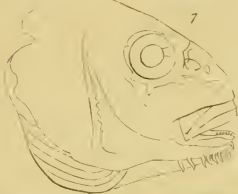
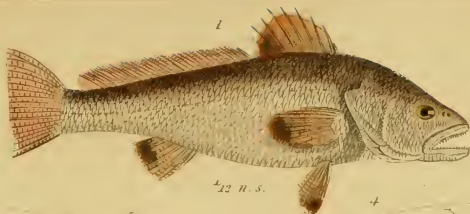


1 *Centrarchus sparoides* 2. *Rypticus arenatus*. 3. *Cirrhitus fasciatus*



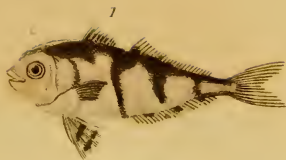
1 Tænianotus traccanthus, Lacép. 2. Apistus trachincides. 3. Apistus monodactylus, n.



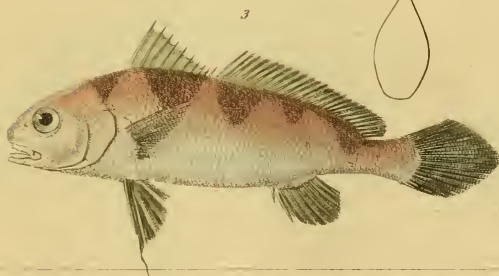
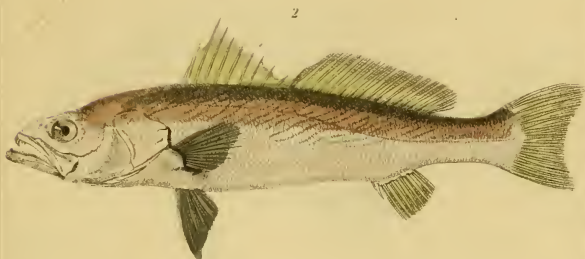


1. *Sciaenops ocellatus*. 2. *Corvina fusca*. 3. *Johnius senegalensis*. 4. Head of the *Otolithus ruber*. 5. Head of the *Ancylodon parvipinnis*. 6. Head of the *Umbrina coroides*. 7. Head of the *Pogonias fasciatus*.

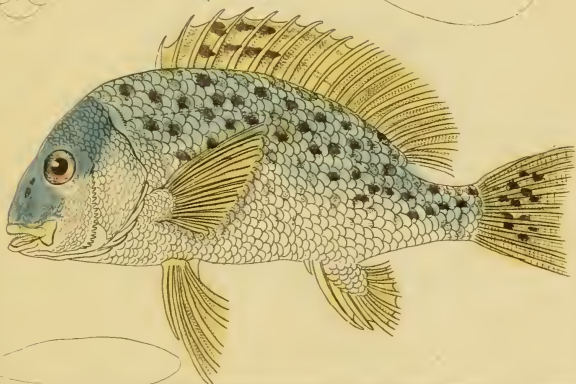




1. *Namurus Perotti* The Shepherd / 2. *Caranx boops*. (The False Mackerel or Carangul)
3. *Gallus aegyptiacus*. The Egyptian Gallus / *Linnaeus's Ichthyology*. Vol. 2 page 210.



1 *Otolithus terree*. Nob. 2. *Otolithus quaticupa*. Nob. (*The Striped Otolithe*)
3. *Corvina lobata*. Nob.



1 *Chelodactylus carponensis* n. 2 *Scolopsides lycogetus* n. 3 *Diagramma guthriei* n.

1

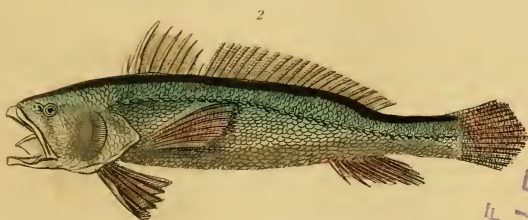
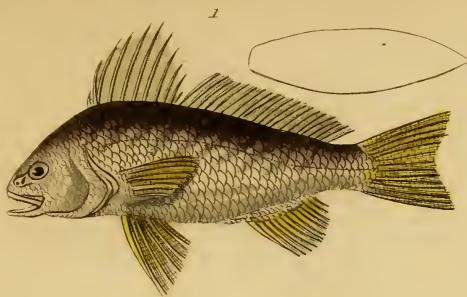


1 Chaetodon lineatus 2 Chaetodon lineatus 3 Chaetodon lineatus





1. *Eques balticus*. 2. *Lobotes erate*. 3. Head of the *Hamulium heterodon*. 4. Head of the *Pristipoma beluratum*. 5. Head of the *Diagramma orientale*.



PROPERTY OF
N. P. METCALF

1 *Leiodon humeralis*. Nob. or *Johnius humeralis*. (Sw.) 2. *Nebris microps*. Nob. (The small eyed *Nebris*) 3. *Corvina dentata*. Nob. (The many tooth *Corvina*)

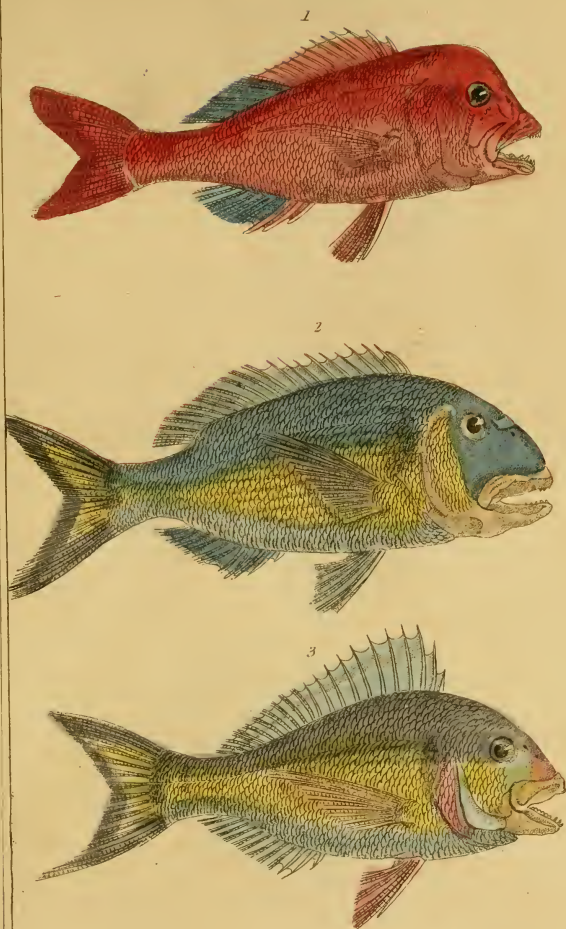


1. *Sargus annularis*. Rob. 2. *Sargus rhomboides*. Rob.
3. *Charax punctatus*. Rob. (The common Puntazzo)





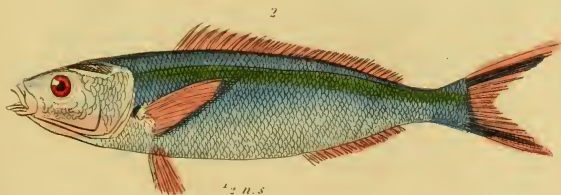
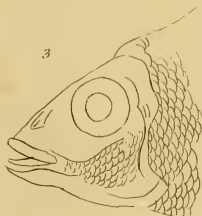
1. *Zanclus cornutus*. 2. *Heniochus monoceros*.



1. *Chrysophrys gibbiceps*. Job. 2. *Chrysophrys crassirostris*. Job.
3. *Chrysophrys aurata*. Job.



1 *Scatophagus ornatus* 2 *Taurichthys varius* n. 3 *Holacanthus trimaculatus* a



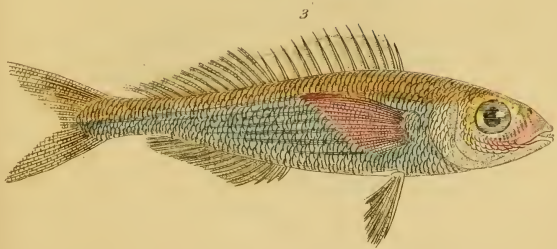
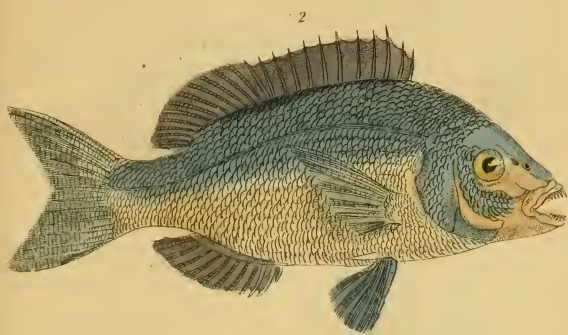
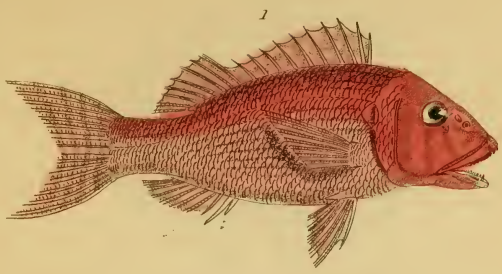
1. *Sinaris alcedo*. The blue spotted Boirel / 2. *Acrosso tile*. *liv.* 3. *Maena vomeriana*. *liv.* (Vomers Mendele)

4. *Girex Phantieri*. *liv.*

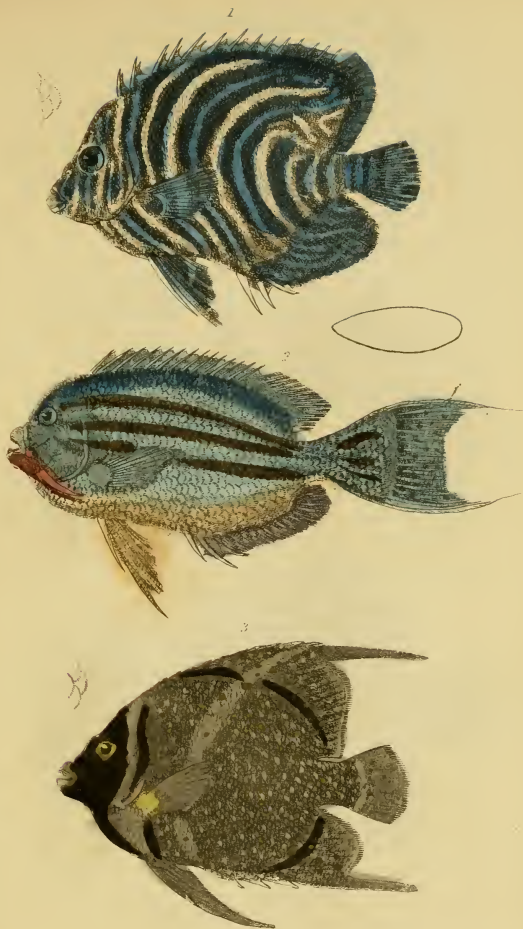


1 *Pagellus heterocephalus* Seb. 2 *Pagellus erythrinus* Seb. The Papet

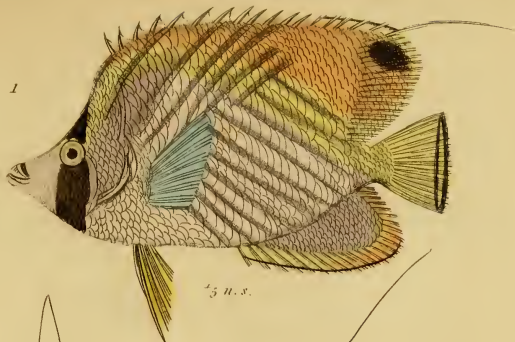
3 *Pagellus ruber* L. A. 7



1. *Lethyrus genivittatus*. Nob. 2. *Cantharus vulgaris*. Nob.
3. *Boops vulgaris*. Nob.



1. *Holacanthus cinnabaeus* p. 2. *Holacanthus lineatus* p. 3. *Pomacanthus angulatus* n.

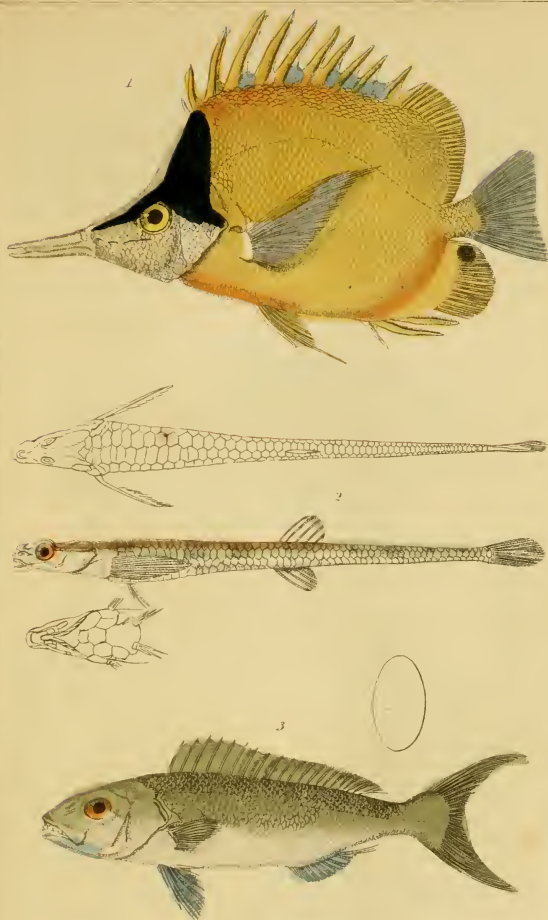


1. *Chaetodon setifer*. Cav. 2. *Ephippus orbis*. Cav. The Mercatorian

3. Head of the *Ephippus leucirostris*.

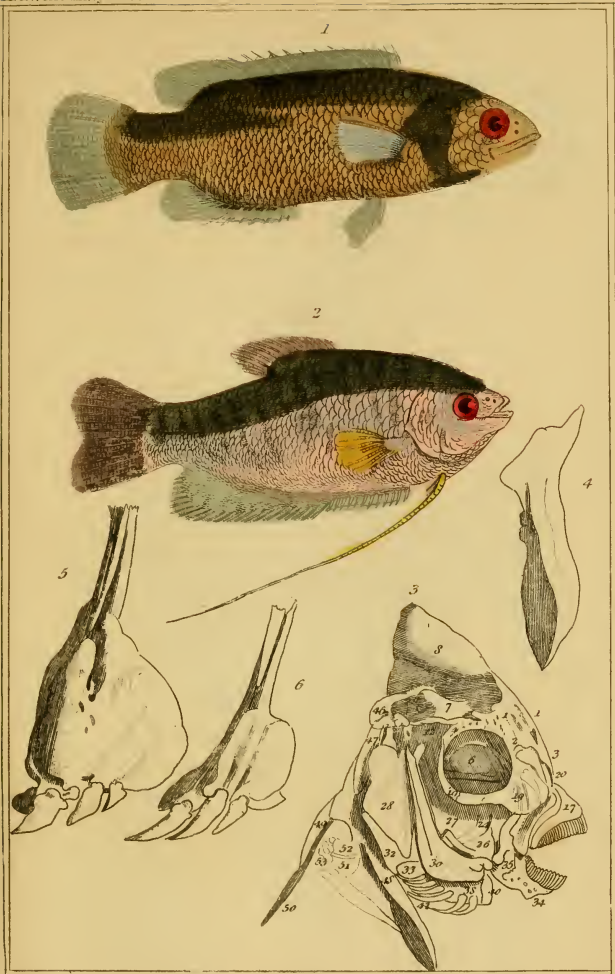


1 *Dentex Peronii*. Nob. (*Perons Dentex*) 2. *Dentex filamentosus*. Nob.
3 *Dentex vulgaris*. Nob. (*The Common Dentex*)



1 *Chelmon torquatus*, n. The Lemonmouthed Chelmon. 2. *Aspidophorus menepterygius* bl. The *Aspidophorus* with a single dorsal. 3 *Aprion viridescens*, n.



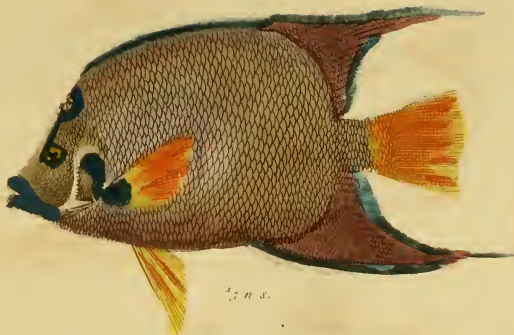


1. *Spirobranchus cupensis*. 2. *Trichopus trichopterus*. 3. Anatomy of the Brain of the *Eplappus gigas*. 4. Shoulder bone. 5 & 6. Interspinal & Anal bones of the *Eplappus gigas*.



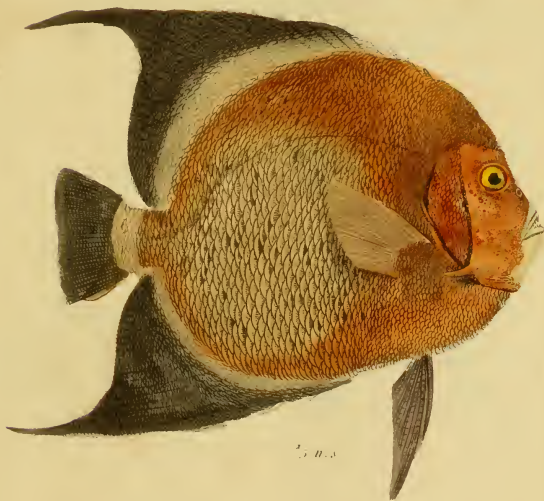
1. *Anabas scandens*, n. 2. *Psettus Sebu*, n. 3. The Labyrinthal Organ of the *Ophicephalus Stridus*.
4. Anatomy of the Brain of the *Osphromenus Gourami*.

1



2. n. s.

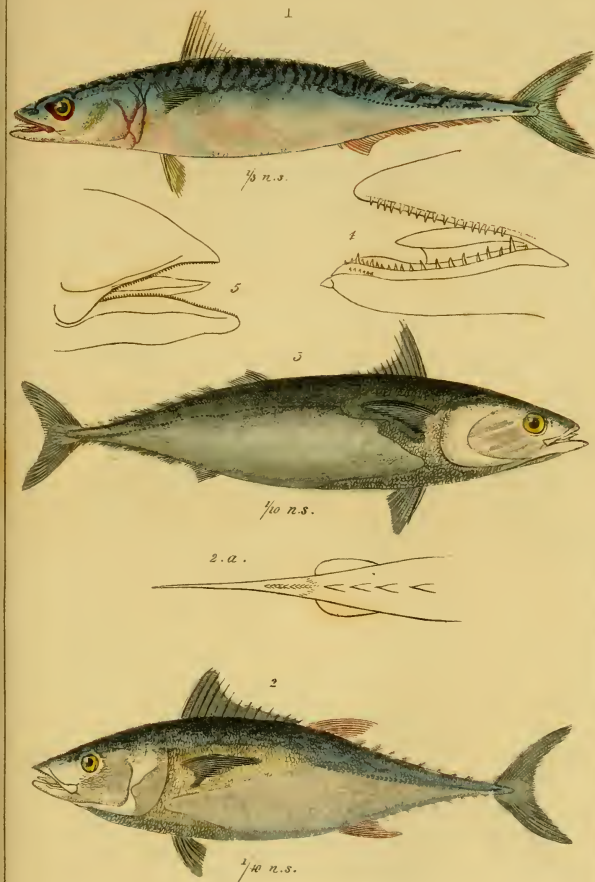
2



2. n. s.

1. *Holacanthus ciliaris*, L. fuv. 2. *Pomacanthus auratus*, fuv.





1 *Scomber scombrus* the common Mackerel,
 2. *Thynnus vulgaris* the Herring/
 3. *Axius Ptelei* the Axius/
 1. the mouth with the teeth of the Axius.
 5 the mouth of *Telanys sarda*.

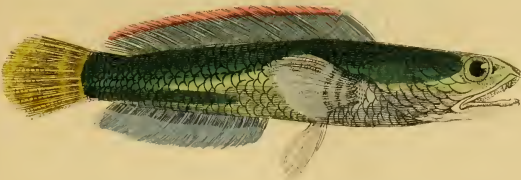
London. G. G. G. 2 Old Bailey.



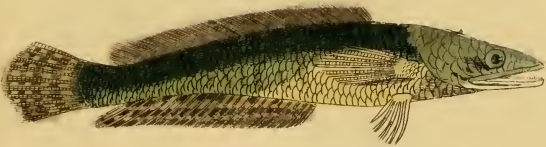
1. *Pentapus aurolineatus*. Nob. The Golden striped Pentapode } 2. *Pentapus porosus*. Nob.

3. *Lethrinus esculentus*. Nob.

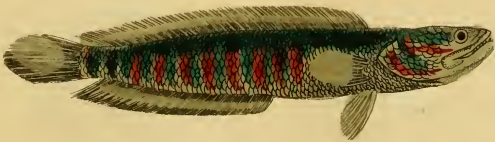
1



2



3



1. *Ophicephalus limbatus*. 2. *Ophicephalus striatus*. Bl?

3. *Ophicephalus grandinosus*. Nob.

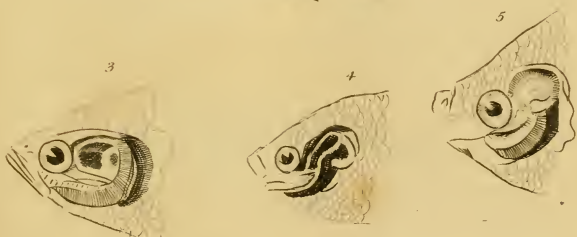
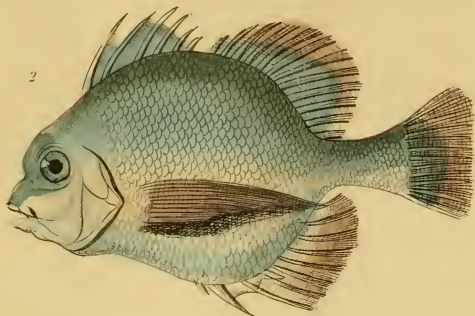


1. *Cohia vulgaris* 2. *Macropodus robustus* n. 3. *Platax guttulatus* n. 4. *Platax punctulatus* n.



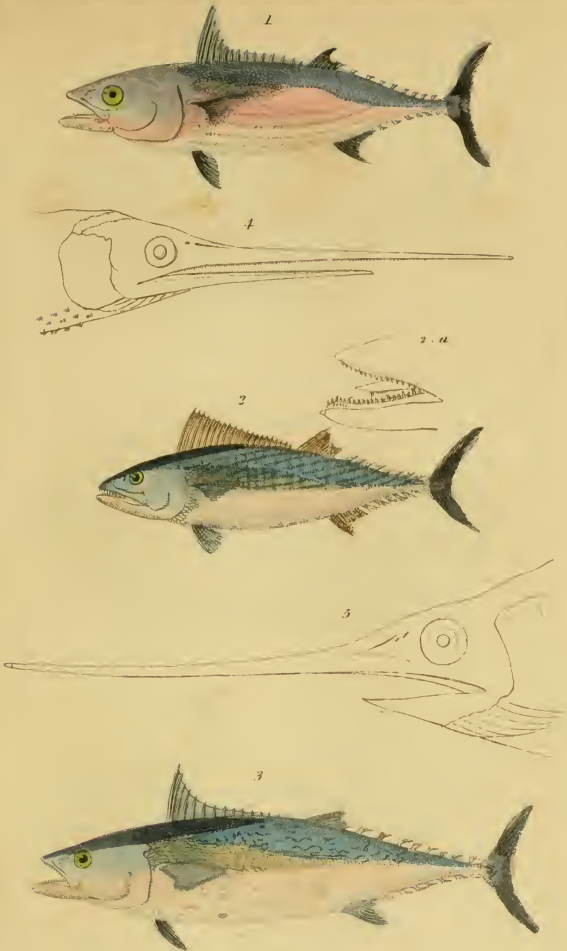
1. *Platax Gannardi*. Cuv. 2. *Psettus rhombus*. Cuv.



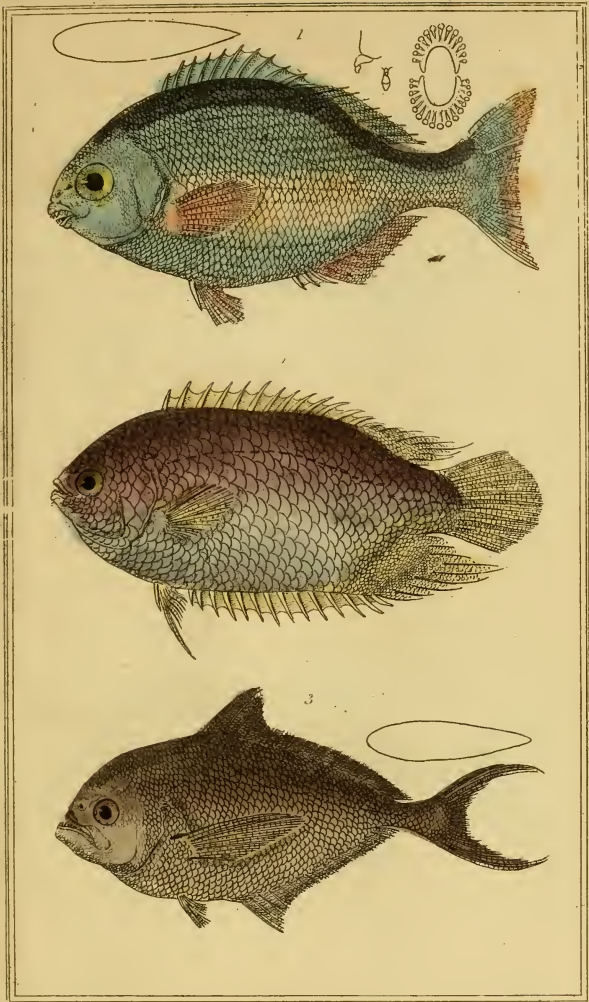


1. *Ephippus Goreensis*. Nob. 2. *Drepane punctata*. Nob.

3. Head of the Spirobranchus. 4. Head of the Macropodus. 5. Head of the Common Calisa.



1. *Thynnus pelamys*. Job. The Tropical Bonito or ray bellied Tunny / 2. *Pelamis sarda*. Job. The common Pelamis / 2. a. Dentition of the *Pelamis sarda*. 3. *Thynnus thunnus*. Job. The Thonine / 4. Head of the *Xiphias gladius*. L. The Sword Fish a young subject / 5. The same as Fig. 4. but taken from a full grown Fish



1. *Pimblepterus Boscii*, Lac. 2. *Polycanthus Hasselti*, n. 3. *Bramia Rüppellii*, Schn.



3. a



3. b



2



1. *Pimblepterus altipinnis*. 2. *Diptorodon capensis*.

3. Head of the *Pimblepterus* *Bosc.* *Lac*



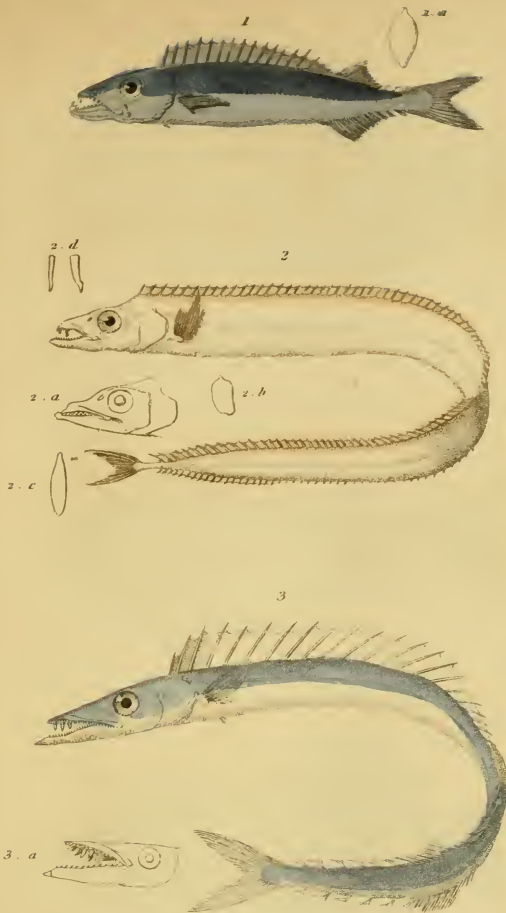


1. *Thyrssites atun*. Nob. 2. *Cybinus tritor*. Nob.

3. *Thyrssites lepidopoides*.

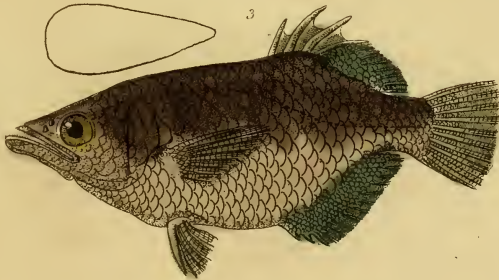
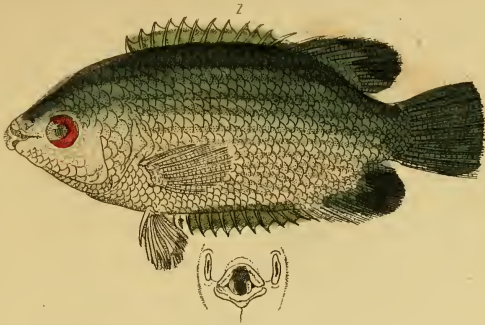
London, G. Henderson, 2. Old Bailey.





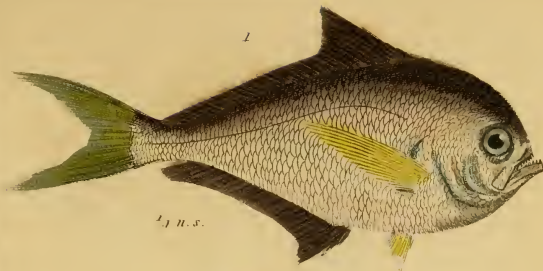
1. *Genypylus prouencens* Ach. 2. *Lepidopus argyreus* Ach.

3. *Genypylus couder* Ach.



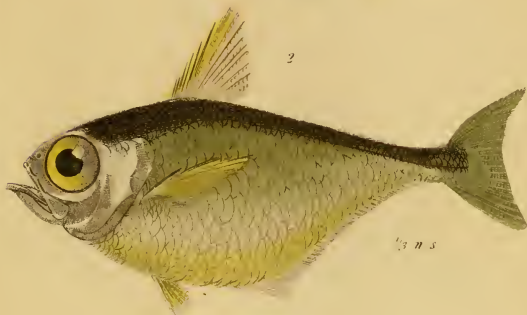
1. *Helostoma temminckii* Ktt VL 2 *Pempheris taitensis* n. 3 *Toxotes jaculator* n

1



$\frac{1}{2}$ n. s.

2



$\frac{1}{3}$ n. s.

3.



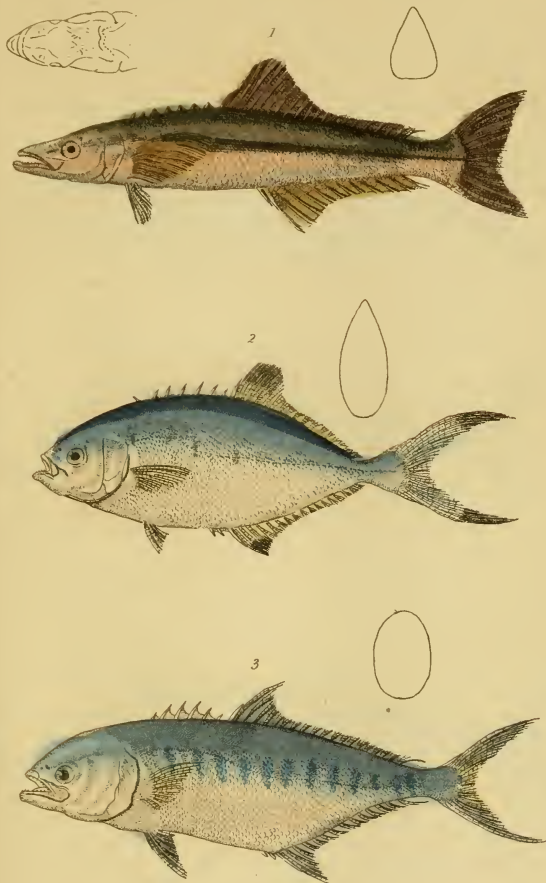
$\frac{1}{5}$ n. s.

1. *Brama Ravi*. Bl. 2. *Pempheris mexicana*.

3. *Toxotes jaculator* Sh.



1 *Gerres plumieri*, n. 2 *Caesio erythroaster*, n. 3 *Smaris dybowskii*, n.

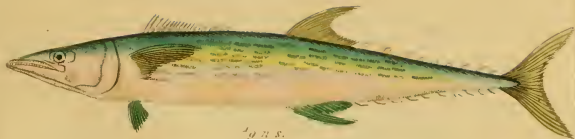


1. *Elacate atlantica* n. 2 *Lichia glauca* n 3 *Lichia radiata* n

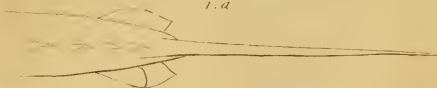


1. *Thynnus ala-longa*. 2. *Thynnus brachypterus* 3. *Thynnus brevirostris*.

1



1. a



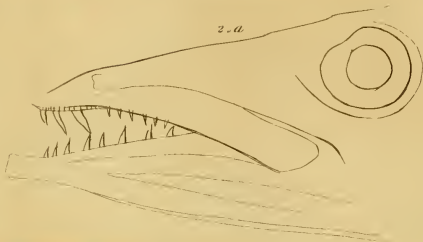
2



2. b



2. a



3. a

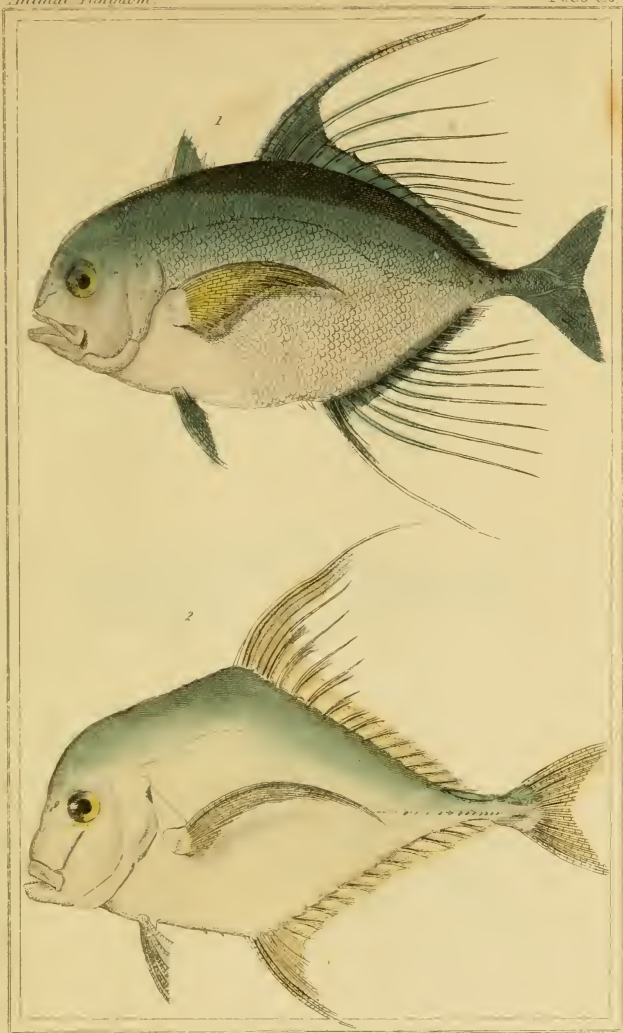


3

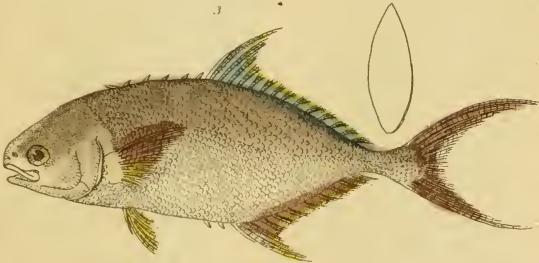


1. *Cybinus lineolatus*. (The long Tassand) 2. *Thyrsites chilensis*. The White Thyrsites
3. *Gempylus prometheus*. (The Gempyle)

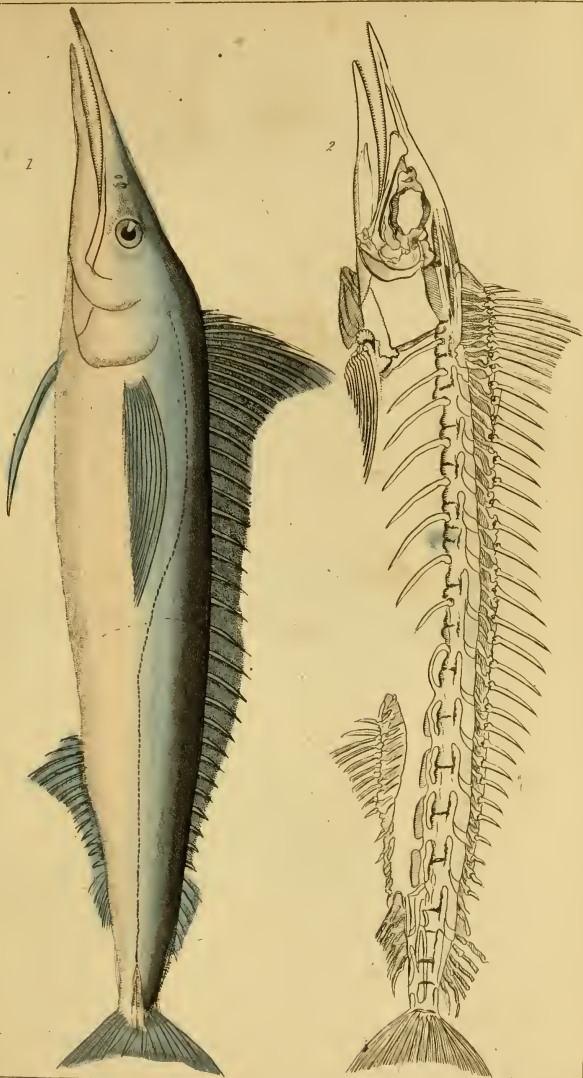




1 *Olistus Malabaricus*, Cuv et Val. 2, *Scyris indica* Cuv et Val.

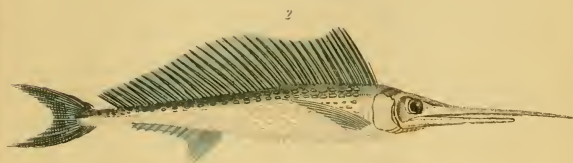


1 *Apolectus steenstrupii*. 2 *Chormenius sancti-petri*. 3 *Tachinotus panpanus*.

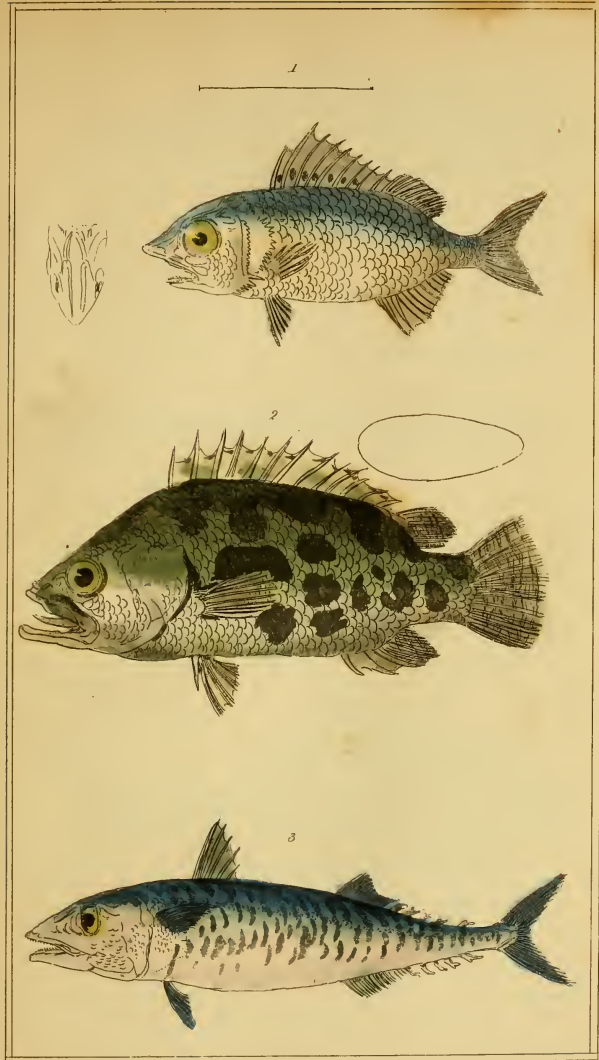


1. *Tetraodon lineatus* nob. 2. Skeleton of the *Tetraodon lineatus* Belone Raf.

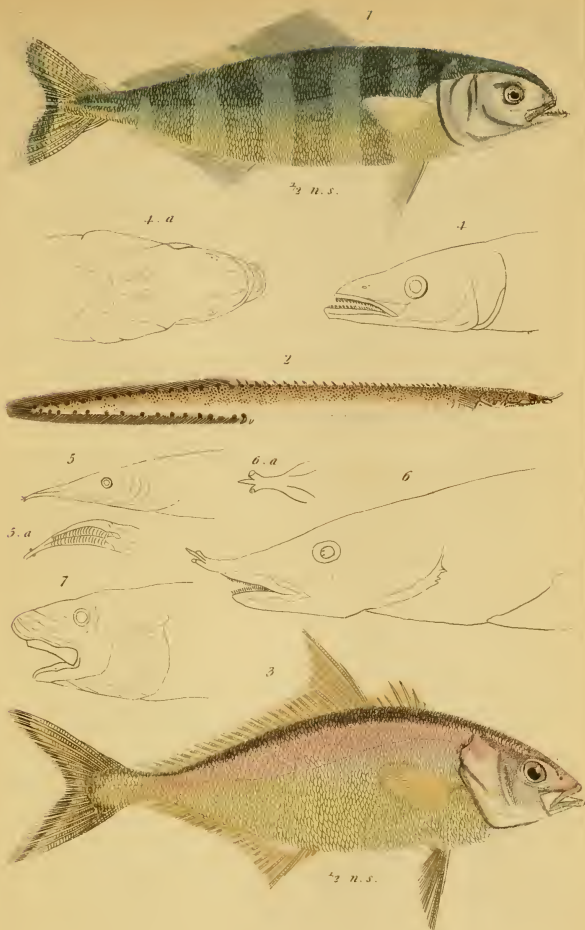




1. *Xiphias gladius*. L. 2. Same Fish but of younger age. 3. *Tetrapturus belone*. Raf.
4. *Histiophorus pulchellus*.

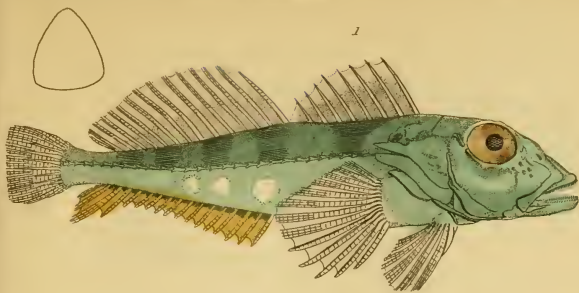


1 *Rhynchichthys petiolatus* n. 2 *Nandus marmoratus* n. 3 *Scomber colias* Cuv.

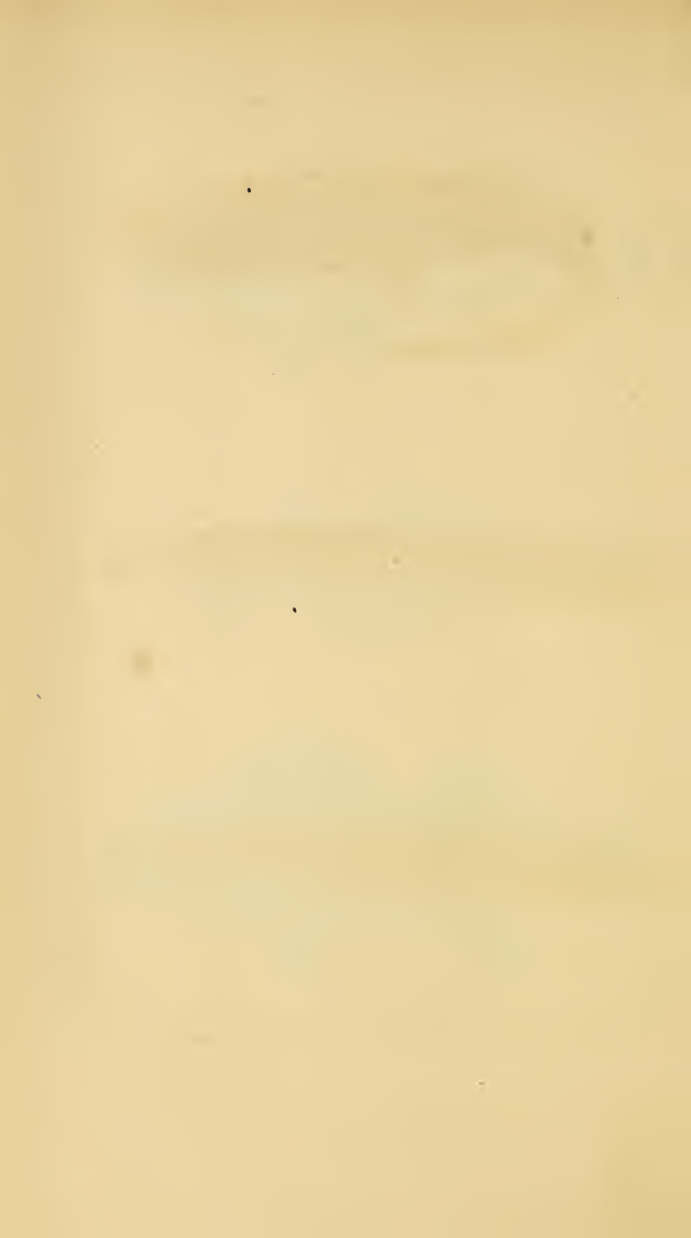


1 *Naukrates indicus*. 2. *Mistacemblus maculatus*. 3. *Seriola Rivoli*. 4. Head of the *Elacate atlantica*. 5. Head of the *Phrynobdella aral*. 6. Head of the *Mistacemblus armatus*. 7. Head of the *Notacanthus nasus* Bl.

London G. Henderson, 2. Old Bailey.



1. *Dorichthys diacanthus* n. 2. *Aphritis Urvillii* n. 3. *Aplodactylus punctatus* n.



1



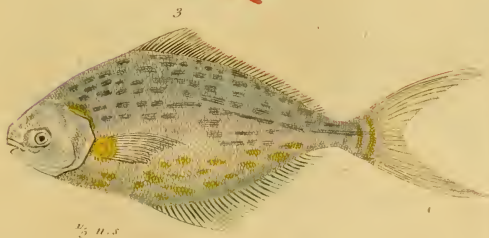
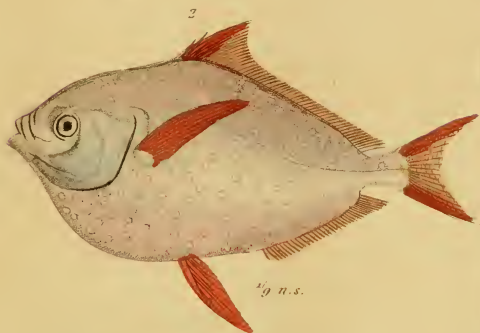
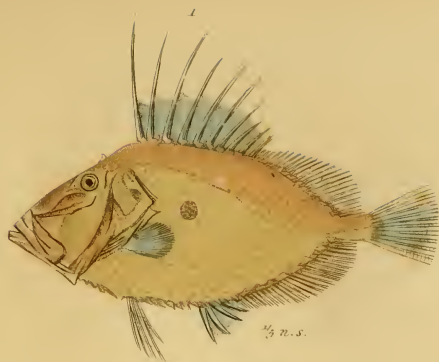
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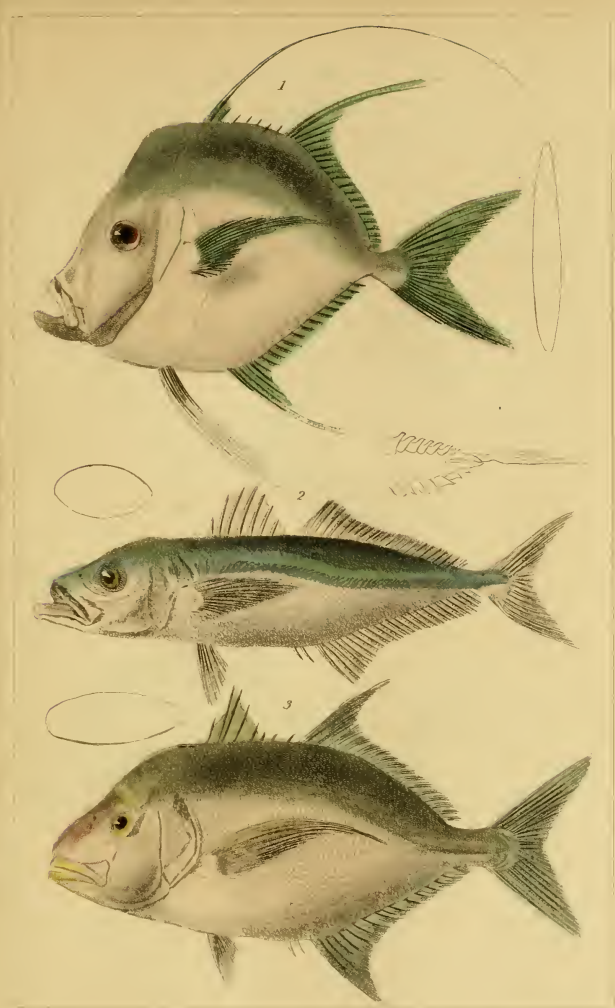


1. *Thalassoma nasus* Bl. 2. *Mastacembelus armatus* n. 3. *Rhynchocheilichthys orata* n.



1. *Thalassoma muricatum* L. The common Surge wrasse. 2. *Thalassoma purpuraceum* Retz. The Surge wrasse of Lacedæde. 3. *Stromateus fiatola* L. The Mediterranean Pommet.

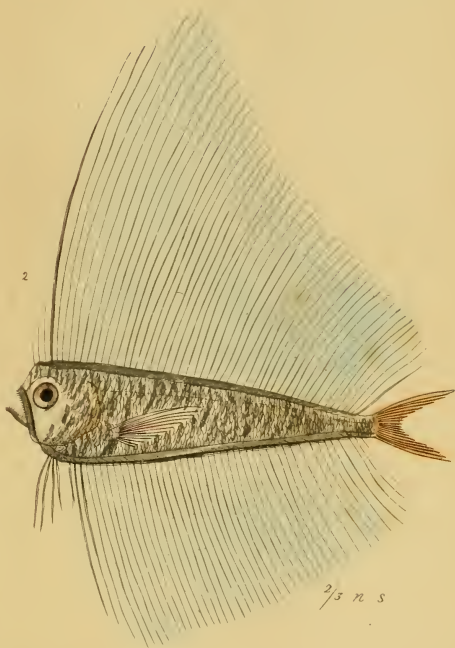




1. *Argyrosus vomer*, Lacép. 2. *Caranx trachurus*, Lacép. 3. *Caranx chrysophrys*, n.

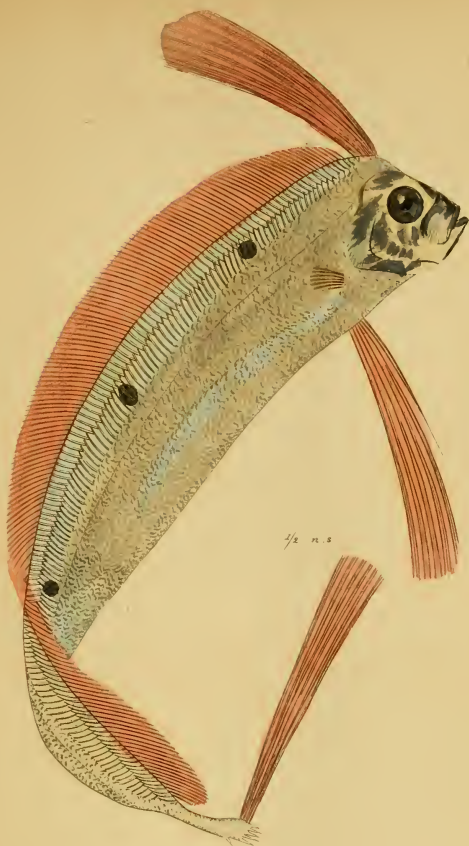


1. *Blepharis sutor* n. 2. *Gallichys major*. n



1. *Coryphaena azorica* Cuv & Val.

2. *Pteraclis trichipterus* Cuv & Val.



Gymnetrus falx Cuv

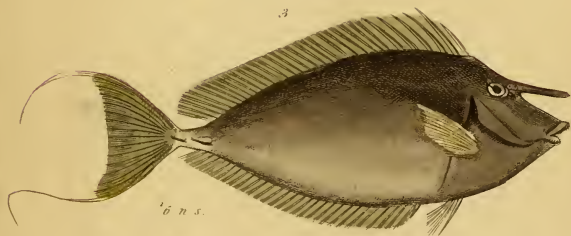
London G. Henderson 2 Old Bailey.



62 H. S.

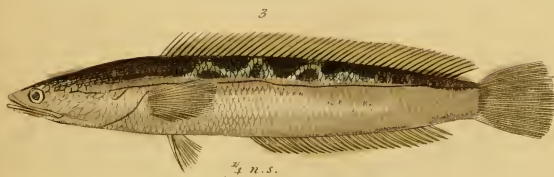


29th H. S.

 σ_{ns}

1. *Siganus deliatus* 2. *Acanthurus Delavianus*.

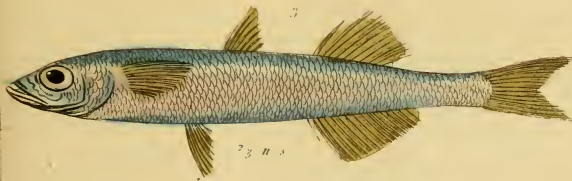
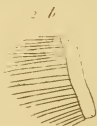
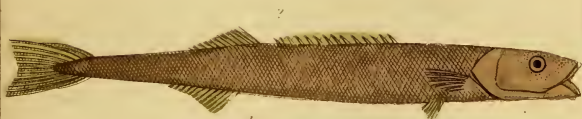
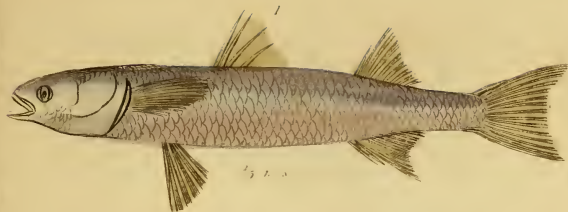
3. *Nasens longicornis*.



1. *Anabas testudineus* Bl. 2. *Polycanthus colisa* Ham.

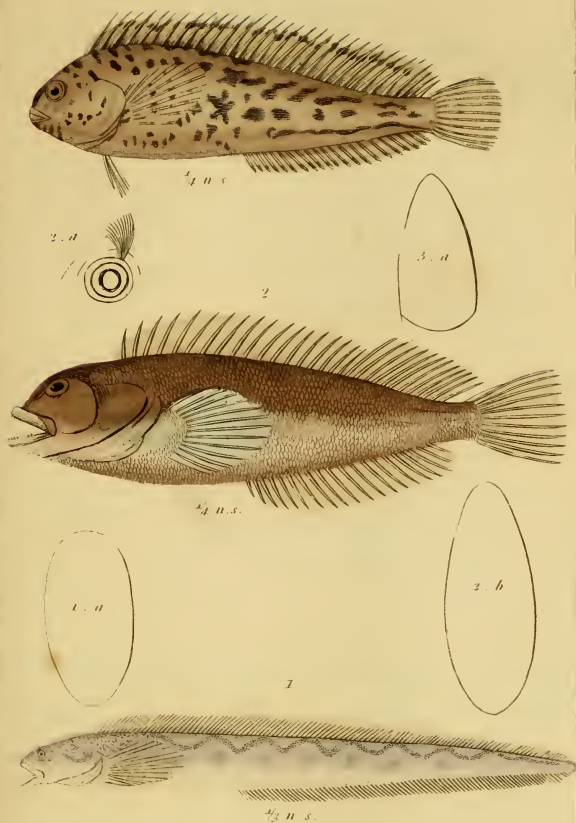
3. *Ophicephalus serpentinus*.





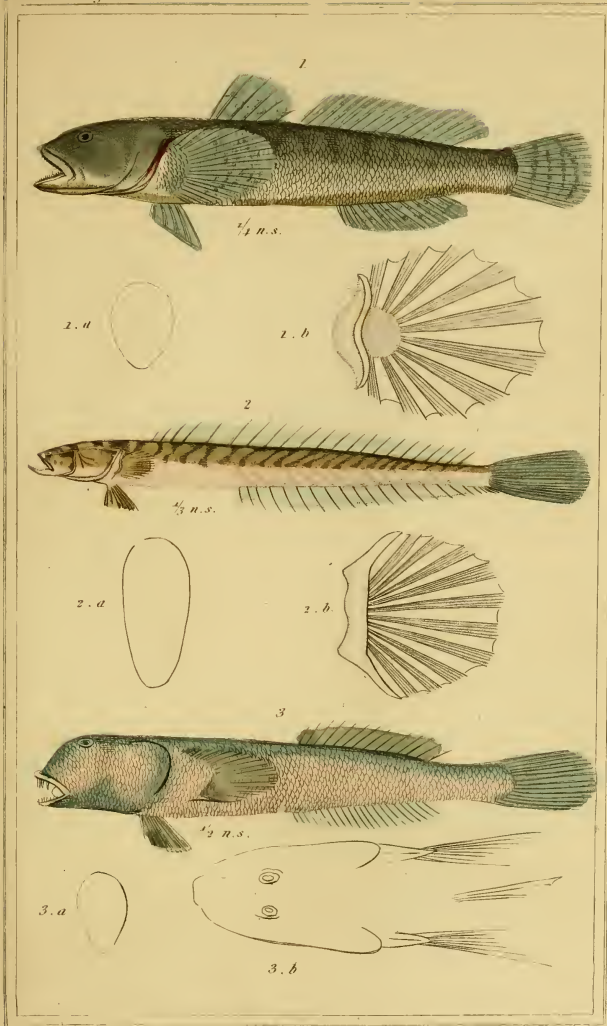
1. *Mugil cephalus*. 2. *Tetraodon lineatus*, Rissø.

3. *Atherina presbyter*.

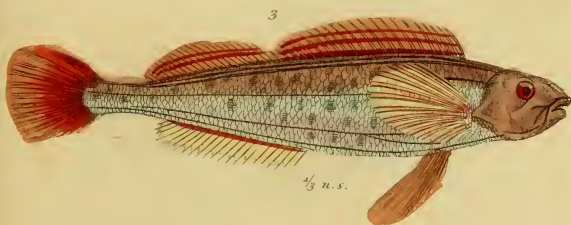
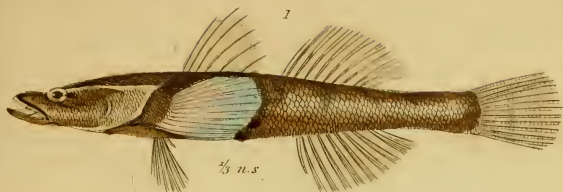


1. *Blennius palmicornis*. 2. *Clinus pectinifer*.

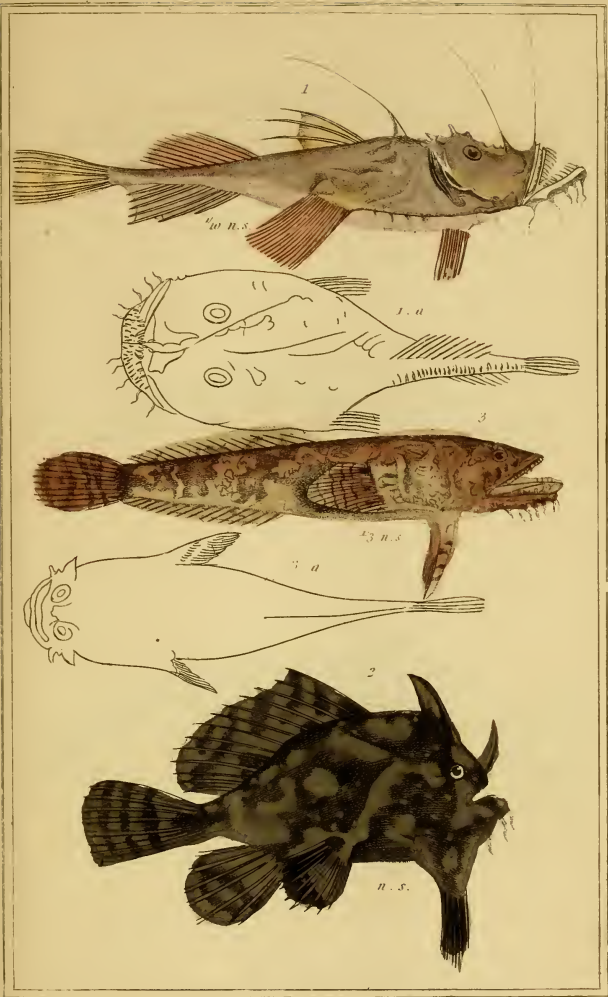
3. *Zoarces blennoides*.



1. *Gobius cupido*, Lin. (The great Goby or Sea Tindreen) 2. *Gobioides Bronssoneti* (The great Gobioides of Bronssonett) 3. *Periophthalmus Freycinetii*



1. *Eleotris dormitatrix*. Cav. / The Sleeper / 2. *Callionymus fasciatus*. / The fasciated Callionymus / 3. *Chirus decagrammus*. Pall. / The Ten Striped Chirus /



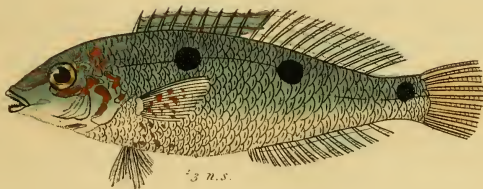
1 *Lophius piscatorius*. 2 *Antennarius nesogadlicus*

3 *Batrachus surinamensis*.

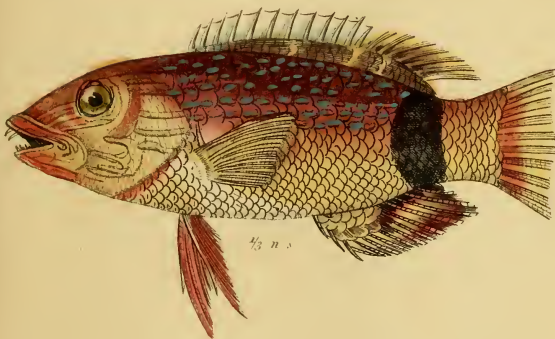
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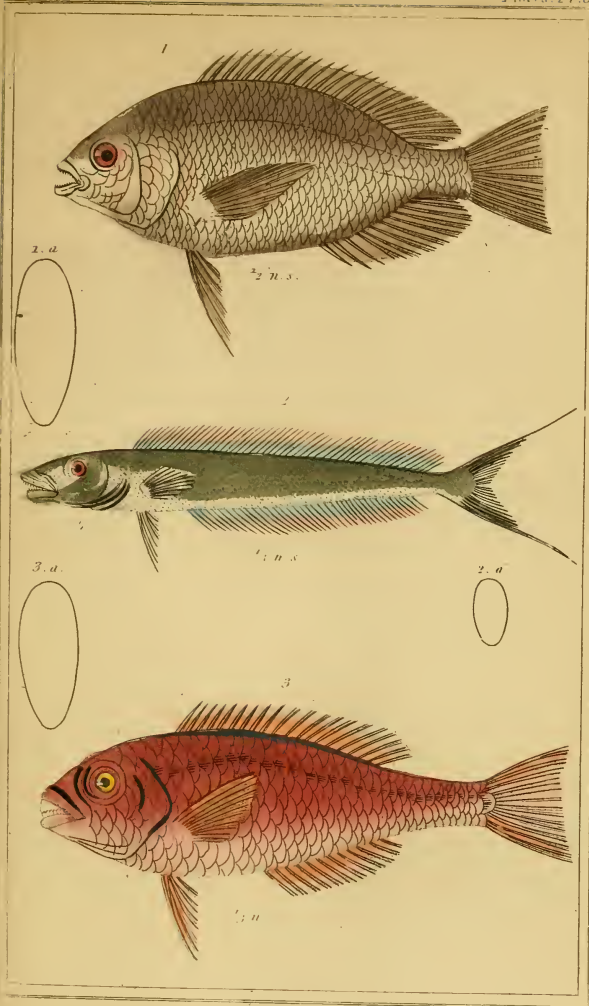


3



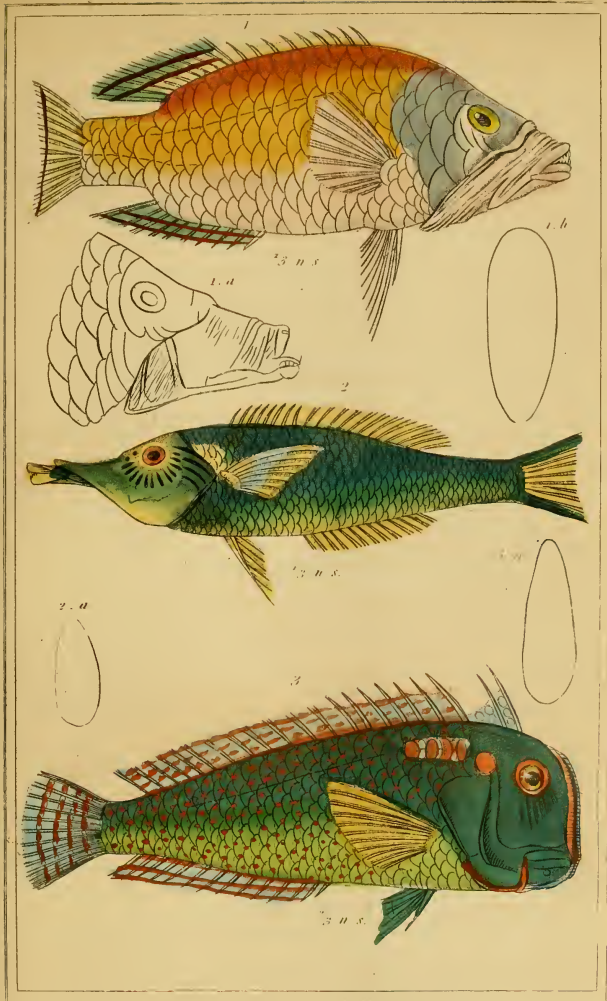
1. *Labrus vittatus*. Quoy and Gaim. 2. *Julis trimaculata*. Quoy and Gaim.

3. *Crenilabrus chabroli*. Less.



1 *Chromis nitida*, Lin. 2. *Malacanthus furcatus*, Lin.

3. *Scaurus creticus* Albov. Lin.

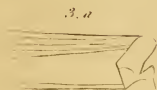


1. *Epibulus insidiator* Tull. *liv.* 2. *Gomphosus viridis* *liv.*

3. *Xirichthys cyanostriatus* *liv.*



23 n.s.



3. a

3. b



1

22 n.s.

2. b



1. a



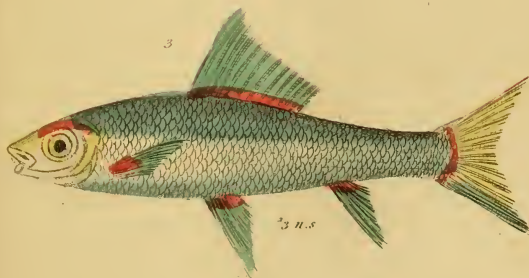
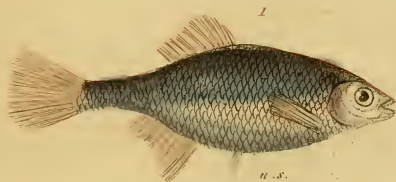
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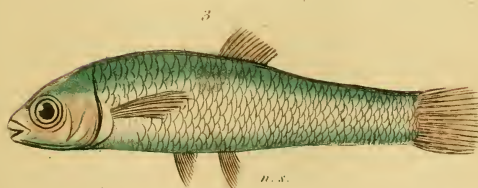
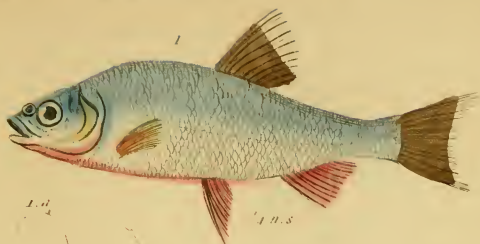
22 n.s.

1. *Fistularia tubularia* The Tobacco pipe Fish, also called Flute Mouth. 2. *Centrisomus sclopetarius*.

1. The Sea Snipe. 3. *Amphipsile scutatus* L. The Shielded Sea Snipe.

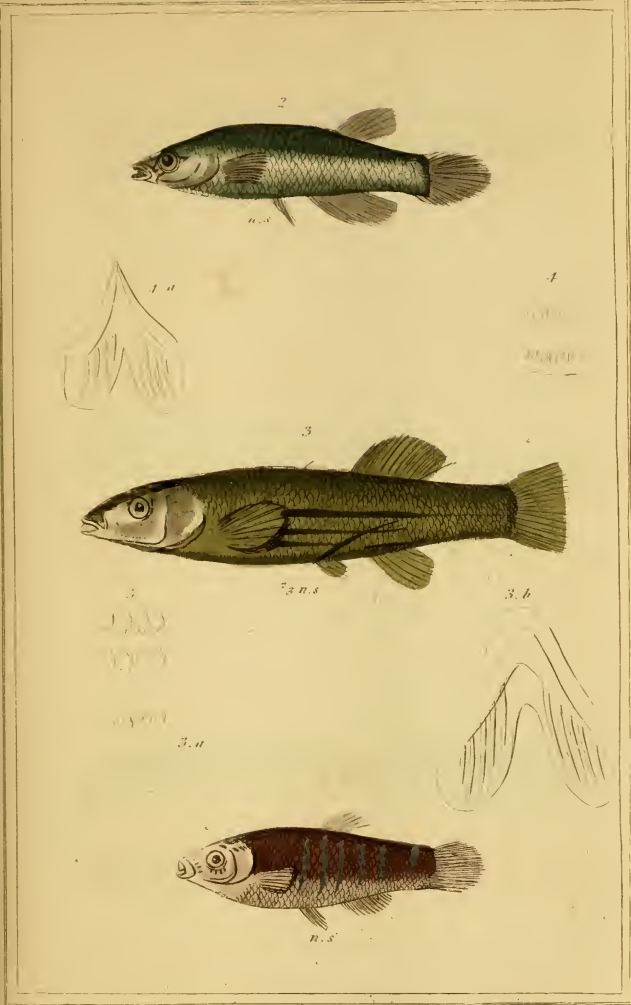


1. *Cyprinus amarus*. The *Amarous Carp*. 2. *Gobio vulgaris*. (The common Sea *Gudgeon*)
3. *Labeo niloticus* Geoff. The *Mullet of the Nile*

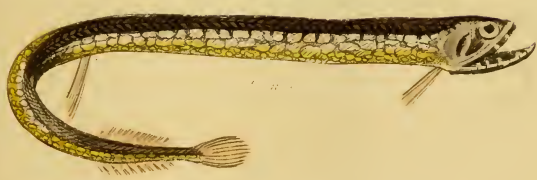


1. *Lencisens idus*, Bloch. The *Albo*, commonly called the White Fish. 2. *Cobitis barbatula*, Lin. (The common Barbel Leach). 3. *Percilia unipunctata* Val. The Dotted Perch.





1. *Lebias fasciata* Val. The fasciated Lebias / 2. *Fundulus brasiliensis* Val. The Fundulus of Brazil / 3. *Cyprinodon variegatus* Val. 4. Anatomical details of the *Fundulus fasciatus* Val. The Fasciated Fundulus / 5. Depiction of the *Lebias rhomboidalis* Val. The Rhomboid Lebias

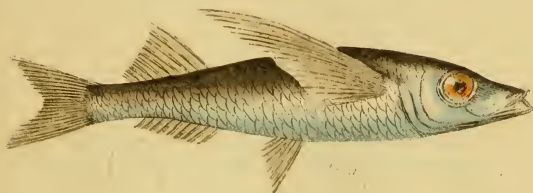


1 *Esox lucius* L. The Common Pike. 2 *Microstomus mediterraneus* The Mediterranean Microstomus.
3. *Stomias barbatulus* Risso (The Barbed Stomias).

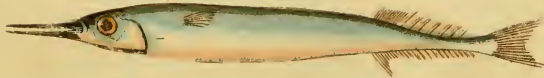
1



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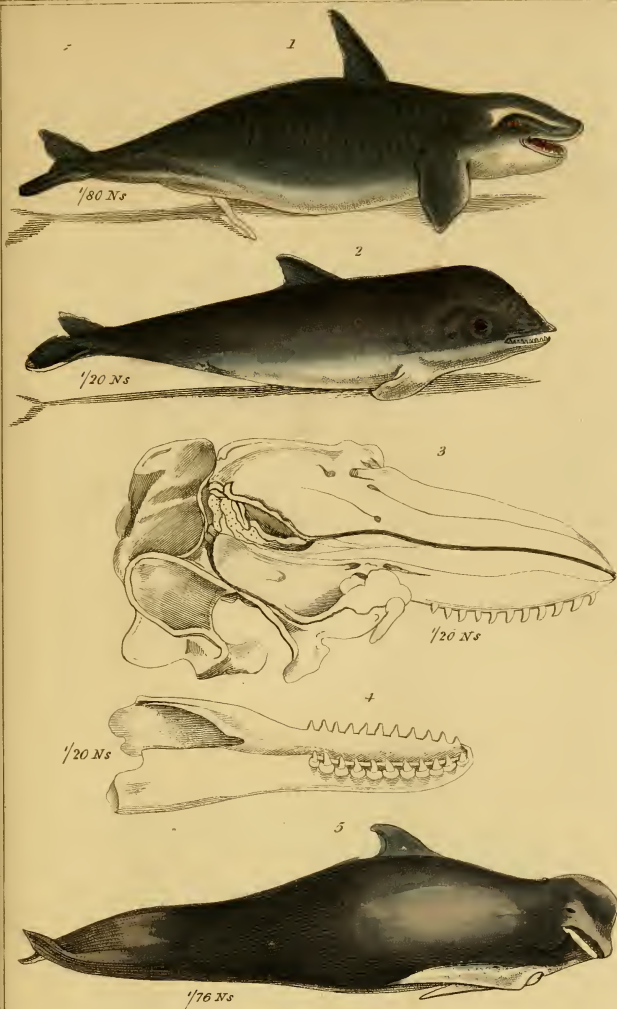
1. *Salix* (Linn.) — Cumbre (or *Salix* fish)

2. *Eurostus acutus* (The Corpulent Flying Fish)



1. *Chromis nilotica* Cuv. 2. *Milacanthus furcatus* Cuv.

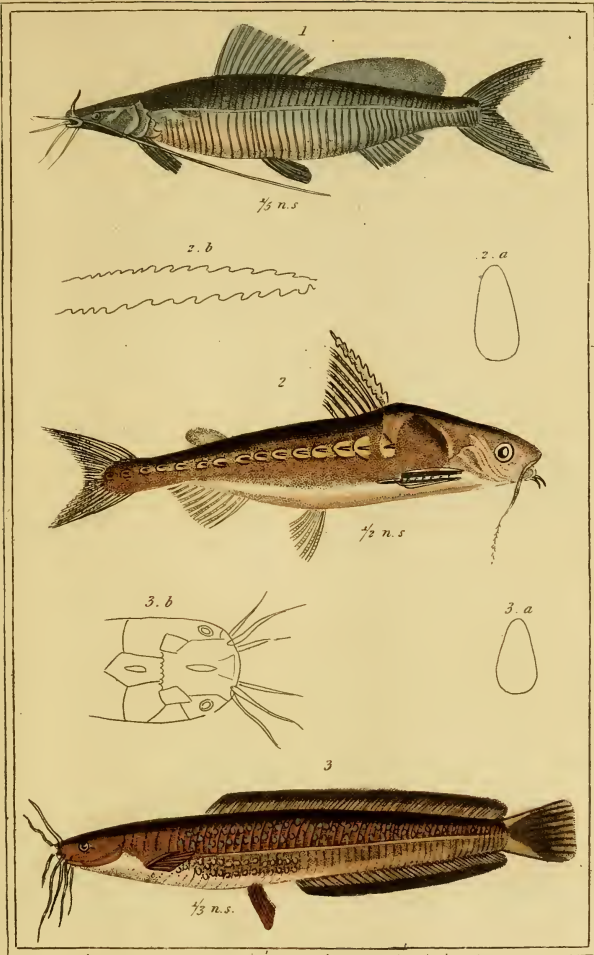
3. *Scaurus creticus* Albrey. Cuv.



1. *Delphinus orca*. Lucep. / *The Grampus* / 2. *Delphinus capensis*. Duss. / *The Cape Porpoise* / 3. The Brain & upper jaw of the *Delphinus orca*. 4. The lower jaw of the *Delphinus orca*. 5. *Delphinus globiceps*. Giv. / *The round headed Grampus* /

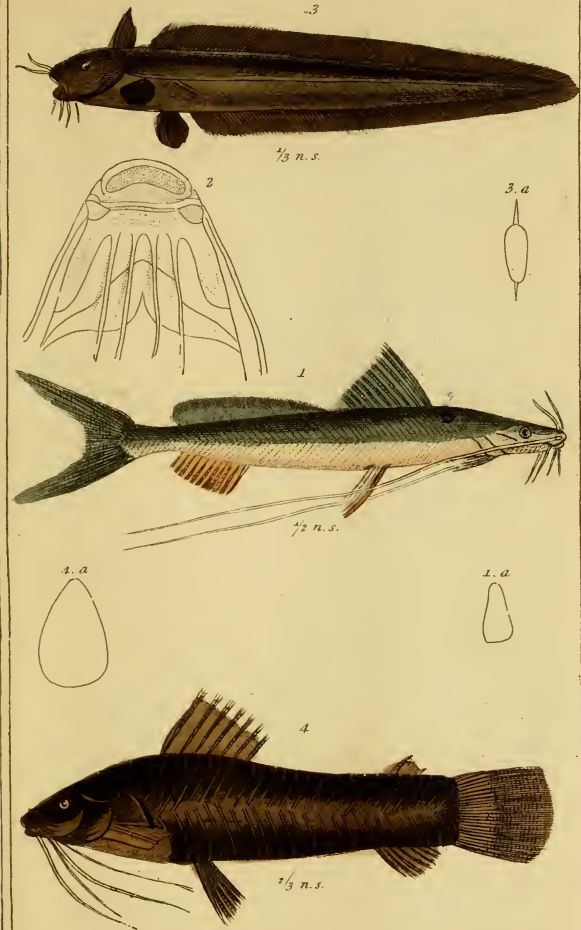


1. *Mornyrus oxyrinchus*, Geoff. Oxy. (The True *Mornyrus oxyrinchus* of the Ancient Egyptians)
2. *Schilbe mystus*, Geoff. (The *Schilbe* of the Nile) 3. *Synodontis scheelei*, Geoff. (The *Thal* of Egypt)



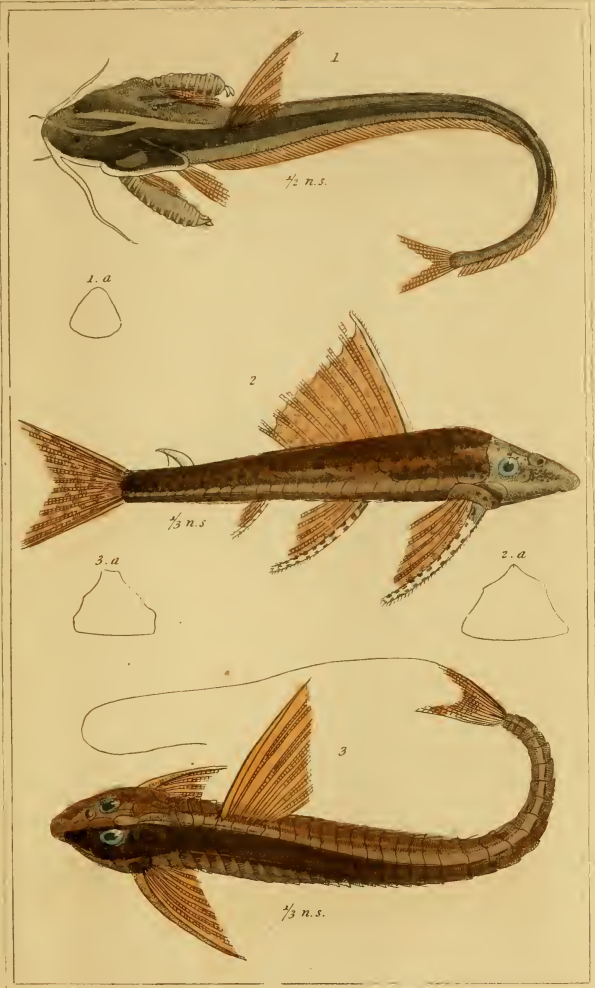
1. Bayard's file. Cuv. & Val. 2. Doras dorsalis. Cuv. & Val.

3. Heterobranchus punctatus. Cuv. & Val.



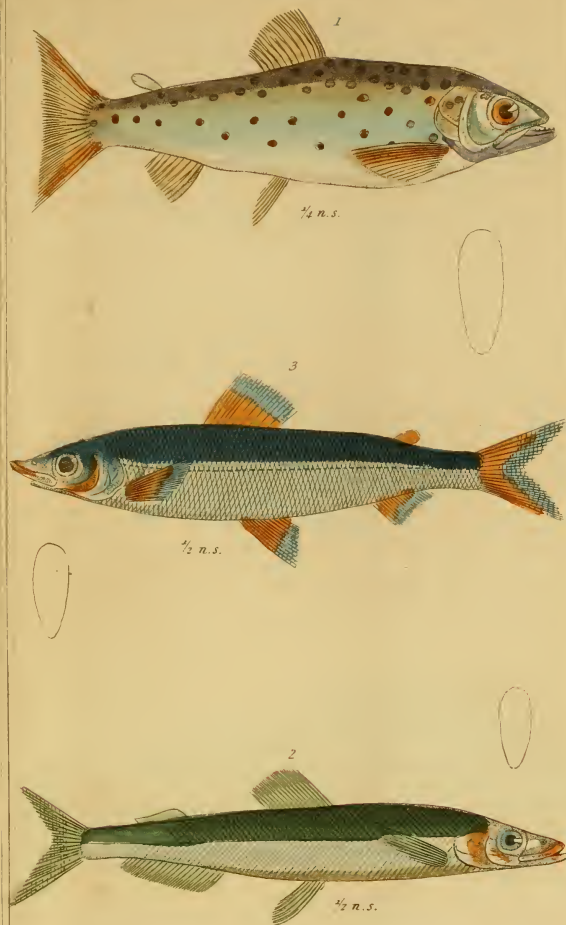
1. *Porcus bayaul*, Geoff. & Cav. 2. Mouth of the *Pimelodes Blochii*, Cav. & Val.
3. *Plotosus albilabris*, Cav. & Val. 4. *Callichthys longifilis*, Cav. & Val.



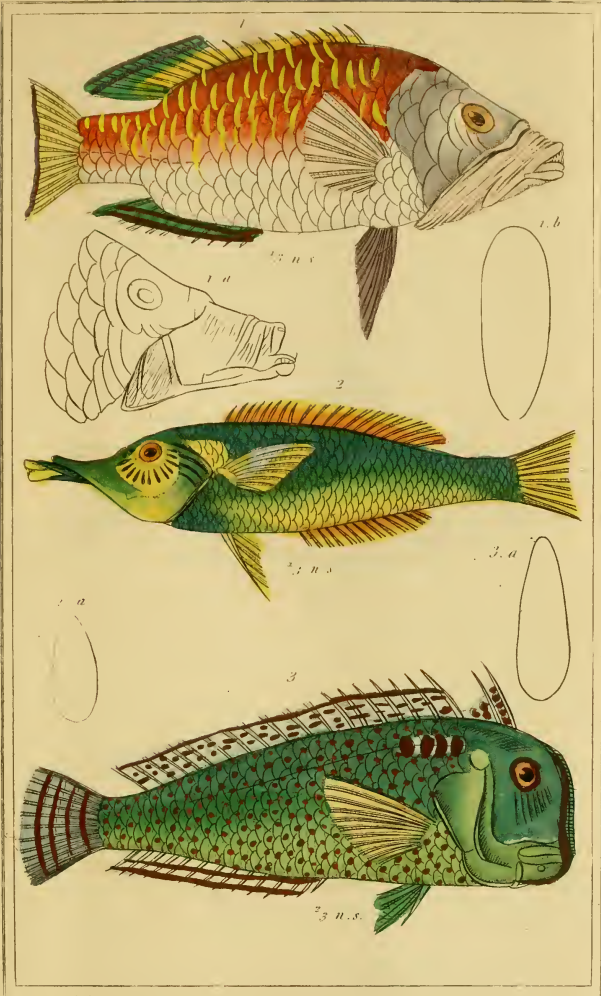


1. *Aspredon octocirrus*. Cuv. 2. *Hypostomus plecostomus*. Cuv.

3. *Loricaria cataphractus* Lin. Cuv.

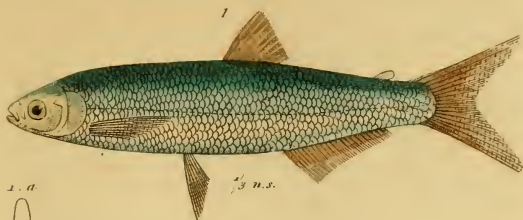


1. *Salmo fario* L. Cuv. (The Common Trout) 2. *Mallotus groenlandicus* Bl. Cuv. (The Capelan)
3. *Coregonus oxyrinchus* L. Cuv. (The Laverett)



1 *Epibulus insidiator* Pall. Giv. 2 *Gomphosus viridis* Giv.

3 *Xirichthys cyanirostris* Giv



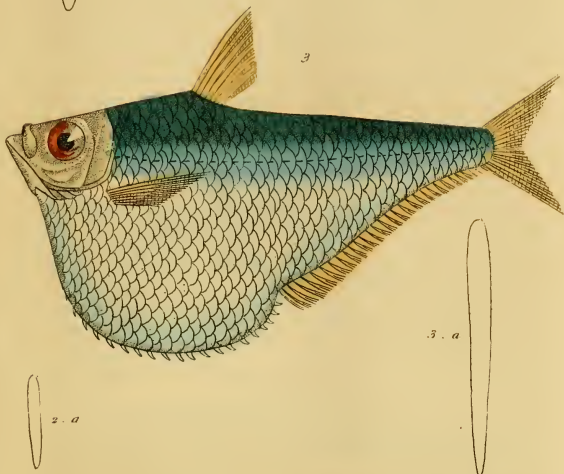
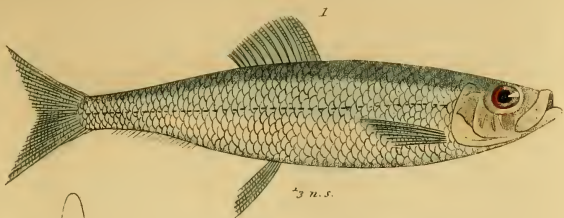
1 *Mylete's Hasselquistii*. Gv. / Sometimes called the Salmon of the Nile / 2 *Curimuta* Gilbert. Quoy & Gaim.

3. *Saurus mediterraneus*. Gv. / The Mediterranean Saurus /

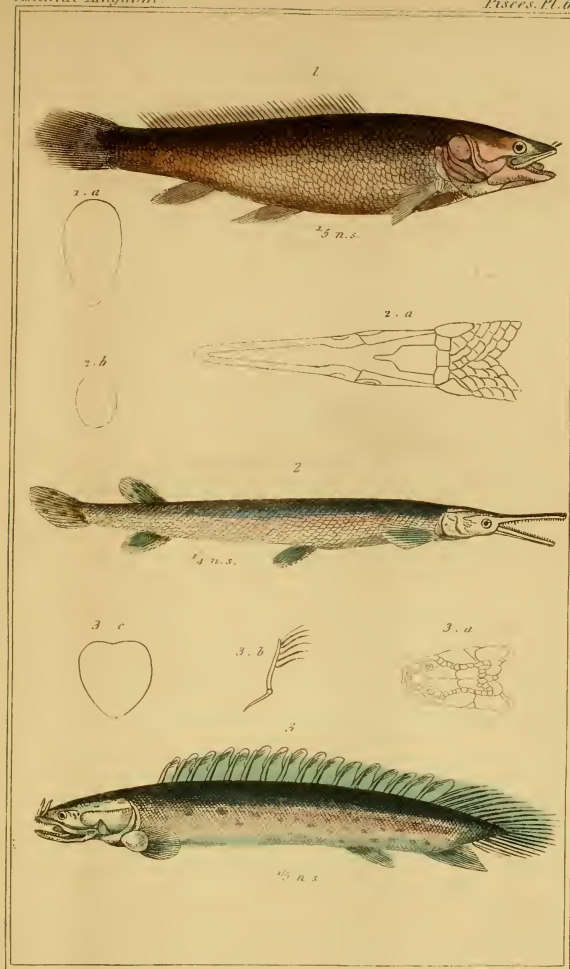
London: G. Henderson, 2, Old Bailey.



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1. *Clupea harengus*. Lin. / The Common Herring / 2. *Guathohobus mucronatus*. Lac.
3. *Pristigaster Americanus*. Cuv. / The American Pristigaster /



1. *Amia calva*. Lin. (The Antie) 2. *Lepisosteus osseus* L. (The Lepisosteus)

3. *Polypterus bichir*. Geoff. (The Bichir)



1. *Megalops cyprinoides*. Bl. (The great *Megalope*) 2. *Chlorocentrus dentatus*. Schn. (The many tooth *Chlorocentrus*) 3. *Erythrinus malabaricus*. Bl. (The *Erythrin* of Malabar)

1



μ_1 n. s.

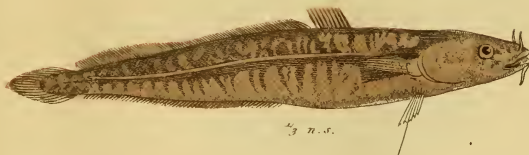
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2. a



2

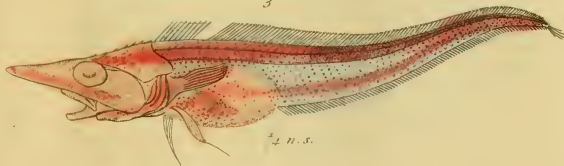


μ_3 n. s.

3. a



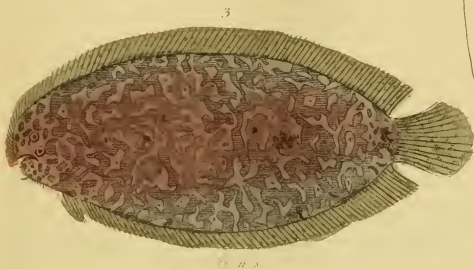
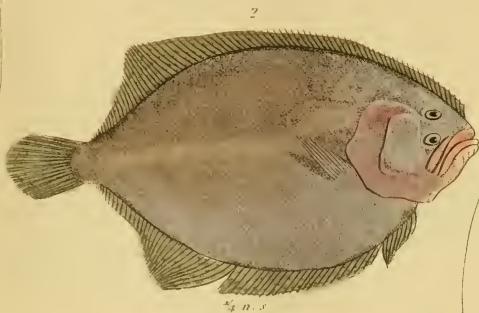
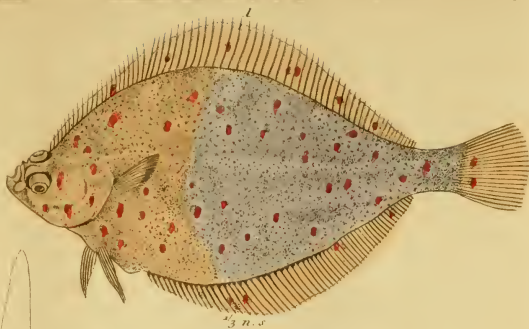
3



μ_4 n. s.

1. *Gadus merlangus*. L. (The Whiting.) 2. *Lota vulgaris*. (The common Ling)

3. *Lepidoleprus colorhynchus*. Biss.



1. *Platessa bimaculata* L. The Dab Rhombus (*Platessa rhombus* L. The Barbe or oval Turbot)

3. *Achirus marmoratus* Loe. The mottled Achirus





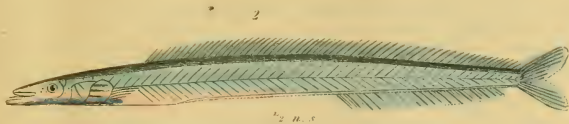
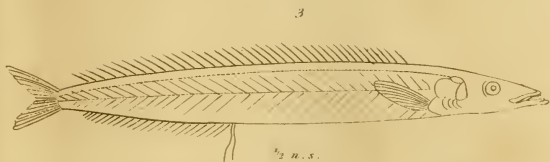
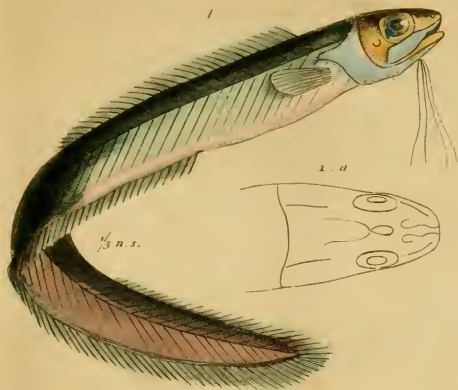
1. *Lepidogaster gouan*, Lac. 2. *Cyclopterus lumpus*, L. / The Lump Linker /
3. *Echeneis remora*, L. / The Remora /



1. *Morana anguilla*. Lin. The Common Eel

2. *Gymnotus electricus*. L. The Gymnotus also called the Electrical Eel

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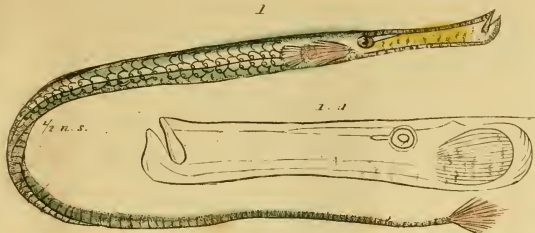


1. *Ophidium barbatum* Bl. The Common Donzelle 2. *Ammodytes tobianus* Bl. The Lancet
3. *Ammodytes lancea* penn. The Equille

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1

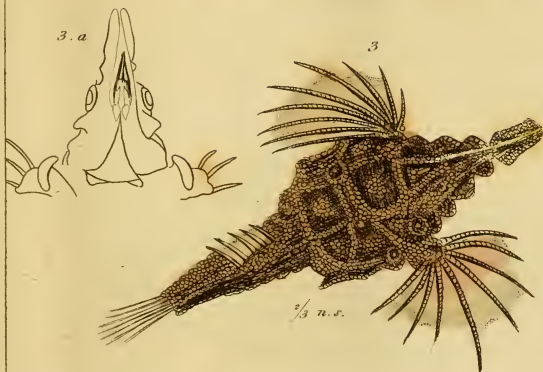


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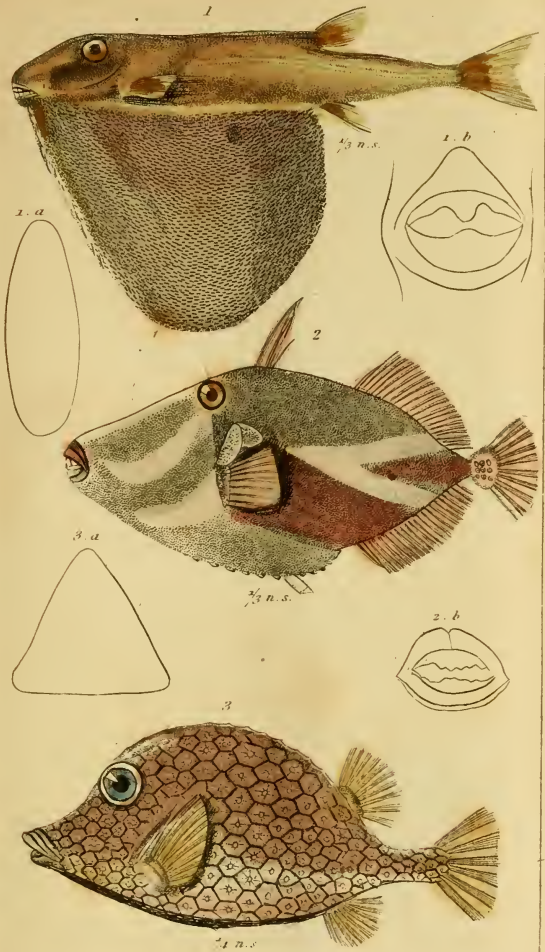
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1. *Syngnathus viridis*. Risso. / The green Sea eel / 2. *Hippocampus brevirostris*. Cuv. / The short snouted Sea Horse / 3. *Pegasus draco*. L.





1. *Triodon bursarius*. Reinw. 2. *Balistes rectangulus*. Schn.

3. *Ostracion triquetrum*. Bl.

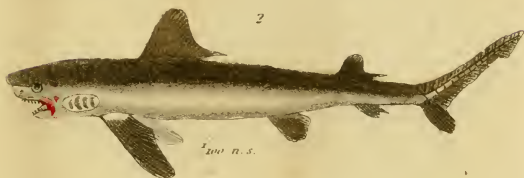


1. *Acipenser sturio* L. The Common Sturgeon, p. 379. 2. *Spatularia spatula* Maud. 3. *Callorhynchus antarcticus* L. Cur. 1 2 p. 389. The Antarctic Chimæra.

1



2



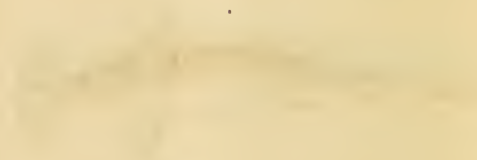
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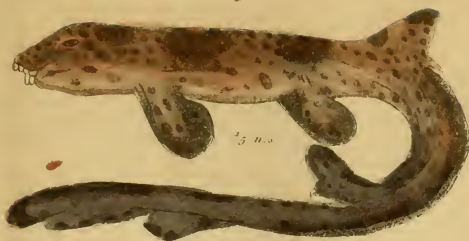
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1. *Scyllium malaisianum*. Lessen. 2. *Squalus carcharias*. Lin. The White Shark. 3. *Zygæna malleus*. Fal. 4. *Pristis antiquorum*. Lath. The Common Saw Fish.

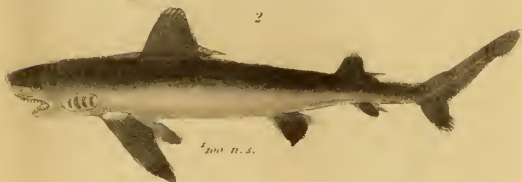


1



$\frac{1}{5}$ n.s.

2



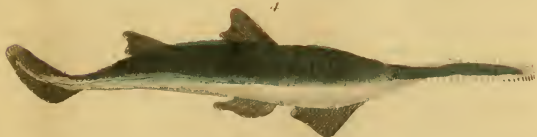
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3



$\frac{1}{10}$ n.s.

4



$\frac{1}{100}$ n.s.

1. *Scyllium malaistanum*. Lessen. 2. *Squalus earcharius*. Lin. The White Shark. 3. *Zygaena malleus*. Val. 4. *Pristis antiquorum*. Lath. The Common Saw Fish.

1



2



2. n



3



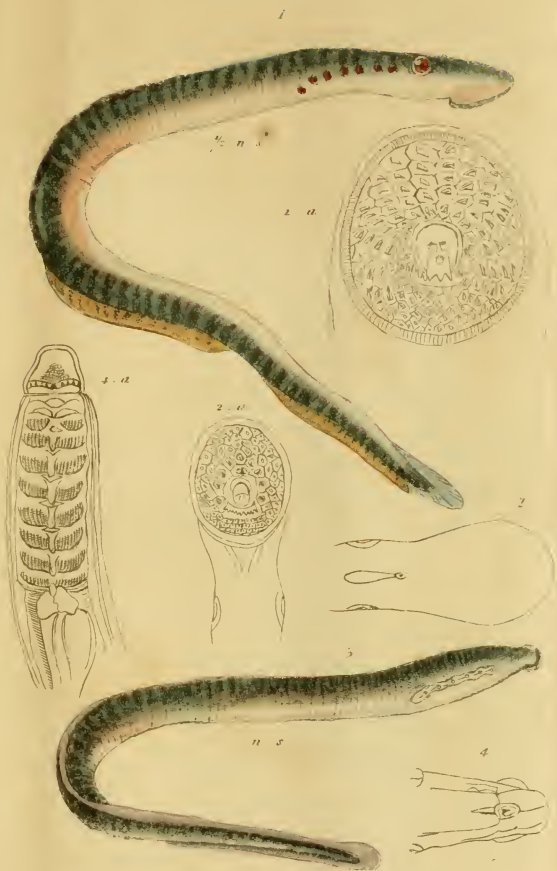
x 5 n.s.

x 20 n.s.



1 Rhinobatus levis The smooth Rhinobatus 2 Torpedo narke Ess. The veellated Torpedo

3 Trygon halouni Less. 4 Cephaloptera bierna Lac



1. *Petromyzon marinus* L. The Sea Lamprey. 2. Anatomical details of the *Petromyzon fluviatilis* L. The River Lamprey. 3. *Ammocetes branchialis* L. The Common Prick. 4. Anatomical details of the *Ammocetes ruber* Lac. The Red Prick.



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